Service Manual

(PIONEER® The Art of Entertainment TOYOTA

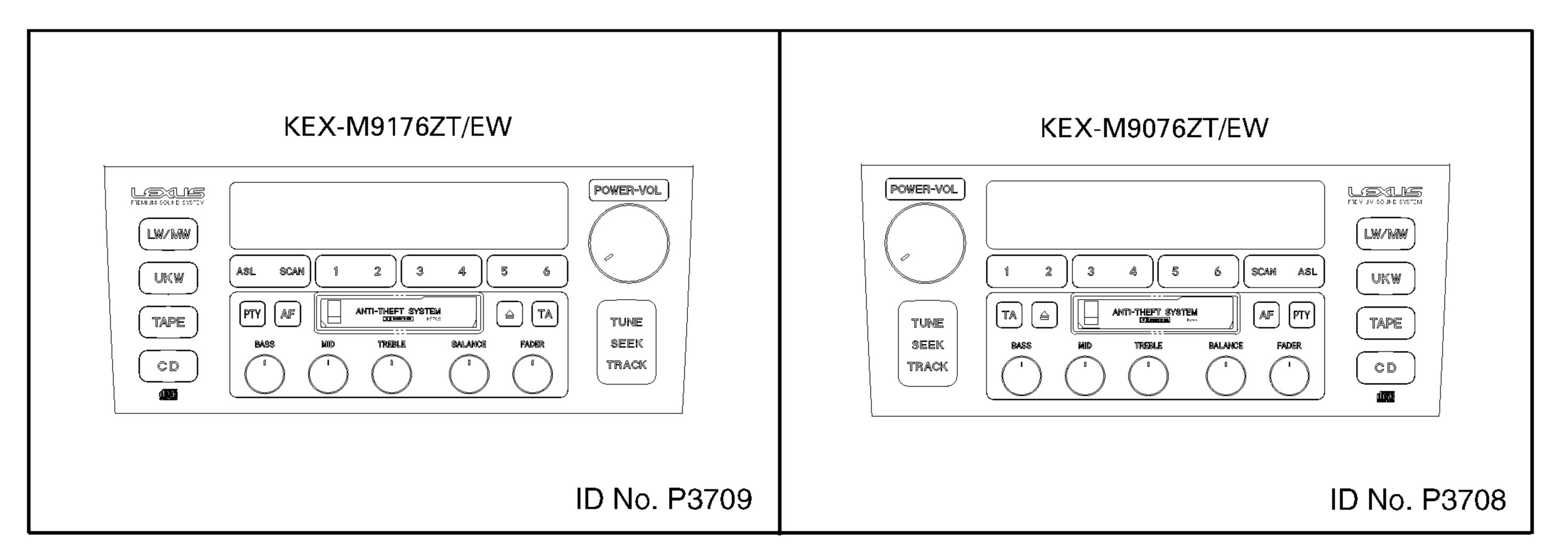
ORDER NO.
CRT2071

© LS400 AUDIO SYSTEM HEAD UNIT

VEHICLE	DESTINATION	PRODUCED AFTER	TOYOTA PART No.	ID No.	PIONEER MODEL No.
LEXUS LS400	UNITED KINGDOM	August 1997	86120-50460	P3709	KEX-M9176ZT/EW
LEXUS LS400	EUROPE	August 1997	86120-50470	P3708	KEX-M9076ZT/EW

Manufactured for TOYOTA
by PIONEER ELECTRONIC CORPORATION

PUB. NO. CRT2071



- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
 "Dolby" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
- See the separate manual CX-529 (CRT1507) for the cassette mechanism description.
- The cassette mechanism employed in this model is one of 2L mechanism description.
- This service manual does not describe the CD test mode.
 For the operations in the CD test mode, refer to the CD player's Service Manual.
- Supplementaly model is identical to the original except for the addition of following items.

Description	Part No.			
	KEX-M9176ZT-91/EW			
	KEX-M9076ZT-91/EW			
Polyethylene Bag	CEG1026			
Carton	CHA2025			
Contain Box	CHD2025			
Protector	CHP1678			
Protector	CHP1678			

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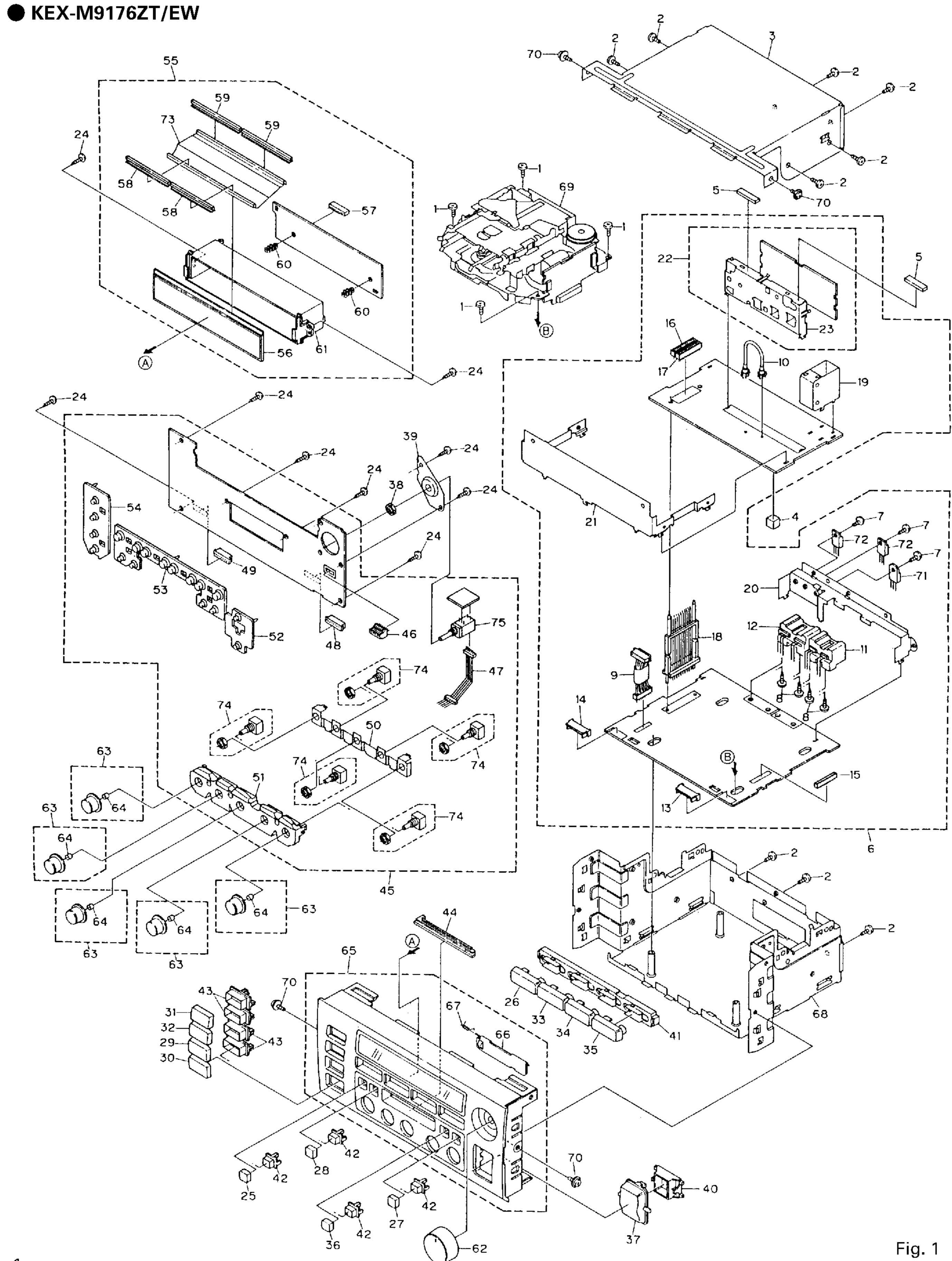
1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 EXTERIOR



NOTE:

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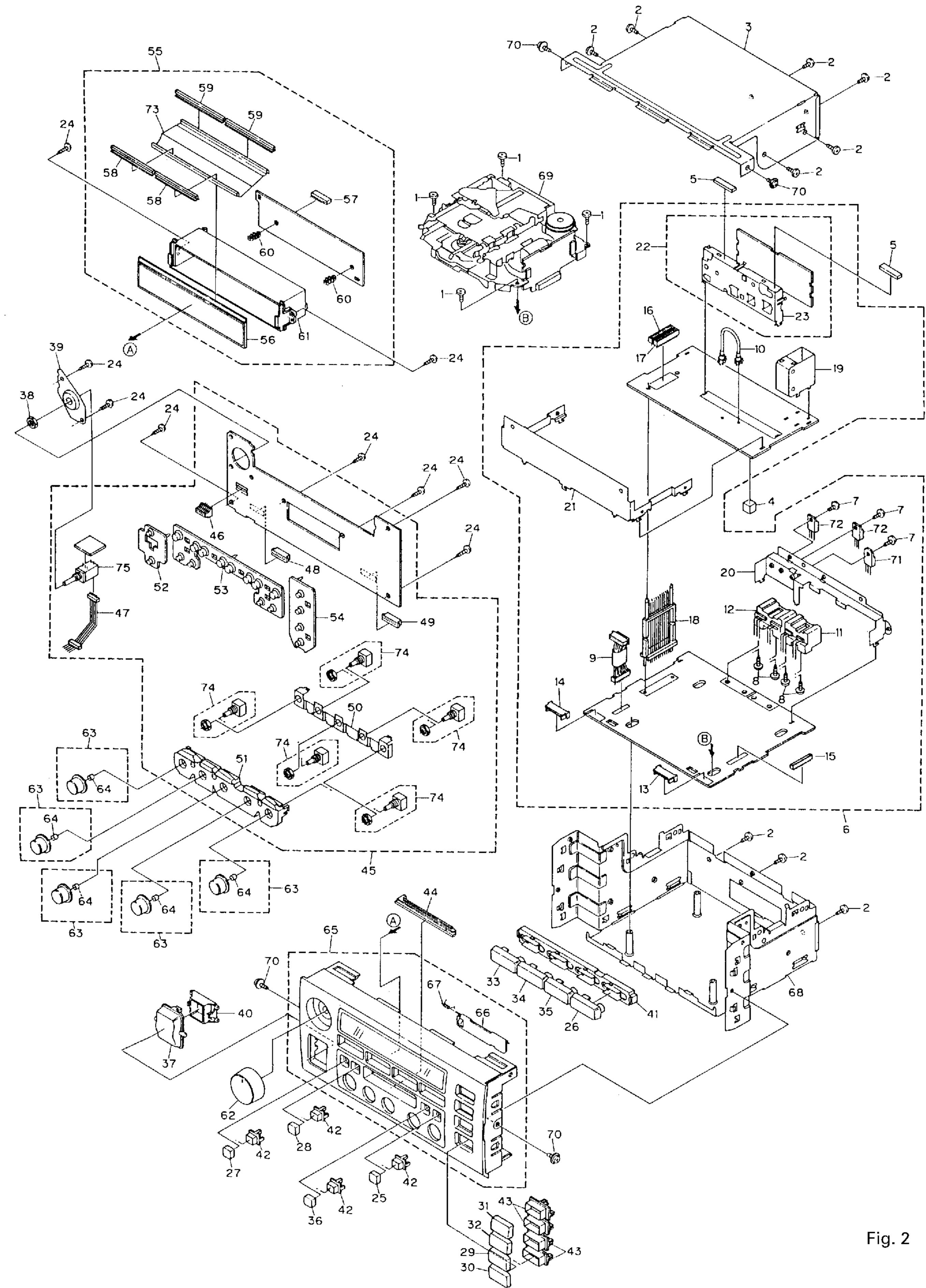
- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- Screws adjacent to T mark on the product are used for disassembly.

EXTERIOR SECTION PARTS LIST

● KEX-M9176ZT/EW

Mark	No.	Description	Part No.	Mark	No.	Description	Part No.
	1	Screw	BMZ26P050FMC		41	Holder	CNV3646
	2	Screw	BMZ30P060FMC		42	Holder	CNV3647
	3	Case	CNB1759		43	Holder	CNV3648
	4	Spacer	CNM5302		44	Lens	CNV4958
	5	Cushion	CNM5473		45	Keyboard Unit	CWM4984
	6	Main Unit	CWM4977		46	Connector(CN904)	CKS2276
	7	Screw	BMZ30P060FMC		47	Connector(CN905)	CKS2626
	8	Screw	CBA1409			Connector(CN901)	CKS2647
	9	Connector(CN951)	CDE5416		49	Connector(CN902)	CKS2647
		Cord	CDH1235			Holder	CNC4980
	11	Connector(CN803)	CKM1124		51	Lens	CNV3644
	12	Connector(CN801)	CKM1127		52	Rubber	CNV3649
	13	Connector(CN952)	CKS2657		53	Rubber	CNV3650
		Connector(CN953)	CKS2657		54	Rubber	CNV3651
	15	Connector(CN301)	CKS2752		55	LCD Unit	CWM5076
	16	Connector(CN652)	CKS3009		56	LCD	CAW1402
	17	Connector(CN653)	CKS3009		57	Plug(CN1903)	CKS1042
	18	Connector(CN701)	CKS3578			Holder	CNC5182
		Antenna Jack(CN651)	CKX1041		59	Holder	CNC7007
	20	Holder	CNC6925		60	Clamper	CNV3652
	21	Holder	CNC7051		61	Holder	CNV3653
	22	Tuner Unit	CWE1456		62	Knob Assy	CXB1604
	23	Holder	CNC6122		63	Knob Assy	CXB1606
	24	Screw	BPZ26P100FMC		64	Spring	CBL-108
	25	Button(PTY)	CAC4872		65	Grille Unit	CXB1928
	26	Button(ASL,SCAN)	CAC4917		66	Door	CAT1877
	27	Button(TA)	CAC5017		67	Spring	CBH1371
	28	Button(AF)	CAC5018		68	Chassis Unit	CXA9813
	29	Button(TAPE)	CAC5268		69	Cassette Mechanism Module	EXK3230
	30	Button(CD)	CAC5269		70	Screw	IMS30P060FMC
	31	Button(LW/MW)	CAC5270				
	32	Button(UKW)	CAC5271		71	Transistor(Q801)	2SB1185
	33	Button(1,2)	CAC5274		72	Transistor(Q817,818)	2SB942
	34	Button(3,4)	CAC5275		73	PCB	CNP4656
	35	Button(5,6)	CAC5276			Volume(VR901—905) Volume(S901)	CCS1224 CCS1106
	36	Button(♠)	CAC5280		, 0		
		Button(TUNE,SEEK,TRACK)					
		Nut	CBN1008				
		Holder	CNC4979				
		Holder	CNV3645				
	70	1101001	J. 1 1 JJ TJ				

KEX-M9076ZT/EW



EXTERIOR SECTION PARTS LIST

KEX-M9076ZT/EW

Mark No.	Description	Part No.	Mark No	э.	Description	Part No.
1	Screw	BMZ26P050FMC	41		Holder	CNV3646
2	Screw	BMZ30P060FMC	42	2	Holder	CNV3647
3	Case	CNB1759	43	}	Holder	CNV3648
4	Spacer	CNM5302	44	ļ	Lens	CNV4958
5	Cushion	CNM5473	45	5	Keyboard Unit	CWM4983
6	Main Unit	CWM5028	46	3	Connector(CN904)	CKS2276
7	Screw	BMZ30P060FMC	47	7	Connector(CN905)	CKS2626
8	Screw	CBA1409	48	3	Connector(CN901)	CKS2647
9	Connector(CN951)	CDE5416	49)	Connector(CN902)	CKS2647
10	Cord	CDH1235	50)	Holder	CNC4980
11	Connector(CN803)	CKM1124	51	l	Lens	CNV3644
12	Connector(CN801)	CKM1127	52	2	Rubber	CNV3649
13	Connector(CN952)	CKS2657	53	3	Rubber	CNV3650
14	Connector(CN953)	CKS2657	54	ļ	Rubber	CNV3651
15	Connector(CN301)	CKS2752	55	5	LCD Unit	CWM5077
						_
16	Connector(CN652)	CKS3009	56	3	LCD	CAW1401
17	Connector(CN653)	CKS3009	57	7	Plug(CN1903)	CKS1042
18	Connector(CN701)	CKS3578	58	3	Holder	CNC5182
19	Antenna Jack(CN651)	CKX1041	59)	Holder	CNC7007
20	Holder	CNC6925	60)	Clamper	CNV3652
21	Holder	CNC7051	61	I	Holder	CNV3653
22	Tuner Unit	CWE1456	62	_	Knob Assy	CXB1604
23	Holder	CNC6122	63		Knob Assy	CXB1606
	Screw	BPZ26P100FMC			Spring	CBL-108
25	Button(PTY)	CAC4872	65 65		Grille Unit	CXB1927
20	Dattona	0/1040/2				O/(D 102)
26	Button(SCAN,ASL)	CAC4873	66	3	Door	CAT1877
27	Button(TA)	CAC5017	67	7	Spring	CBH1371
28	Button(AF)	CAC5018	68	3	Chassis Unit	CXA9813
29	Button(TAPE)	CAC5268	69)	Cassette Mechanism Module	EXK3230
30	Button(CD)	CAC5269	70)	Screw	IMS30P060FMC
31	Button(LW/MW)	CAC5270	71		Transistor(Q801)	2SB1185
32	Button(UKW)	CAC5271	72	2	Transistor(Q817,818)	2SB942
33	Button(1,2)	CAC5274	73	3	PCB	CNP4656
34	Button(3,4)	CAC5275	74	Ļ	Volume(VR901—905)	CCS1224
35	Button(5,6)	CAC5276	75	5	Volume(S901)	CCS1106
36	Button(≙)	CAC5280				
37	Button(TUNE,SEEK,TRACK)					
38	Nut	CBN 1008				
39	Holder	CNC4979				
40	Holder	CNC4979 CNV3645				
40	Holuel	CIN V JU4J				

2.2 CASSETTE MECHANISM MODULE

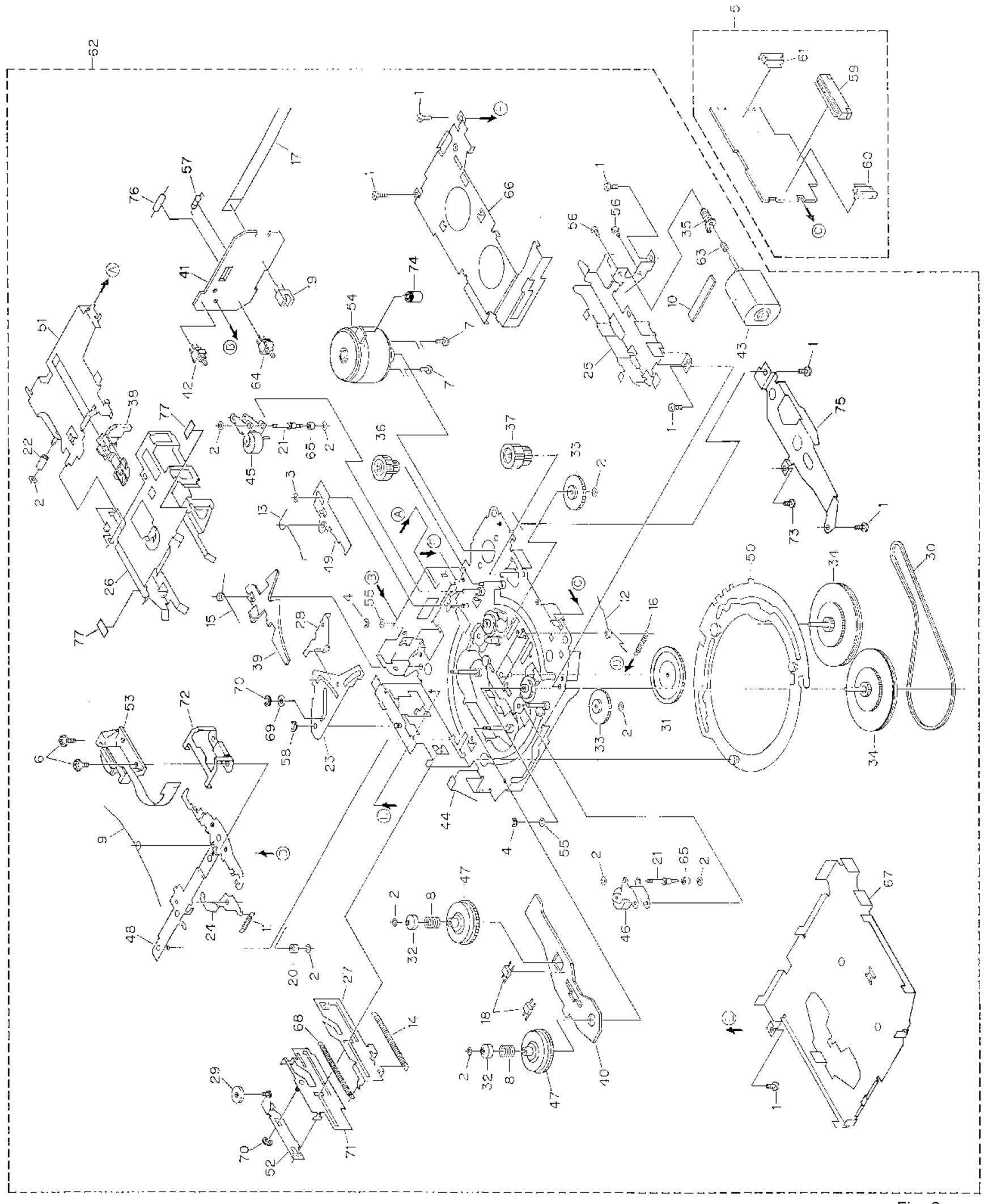


Fig. 3

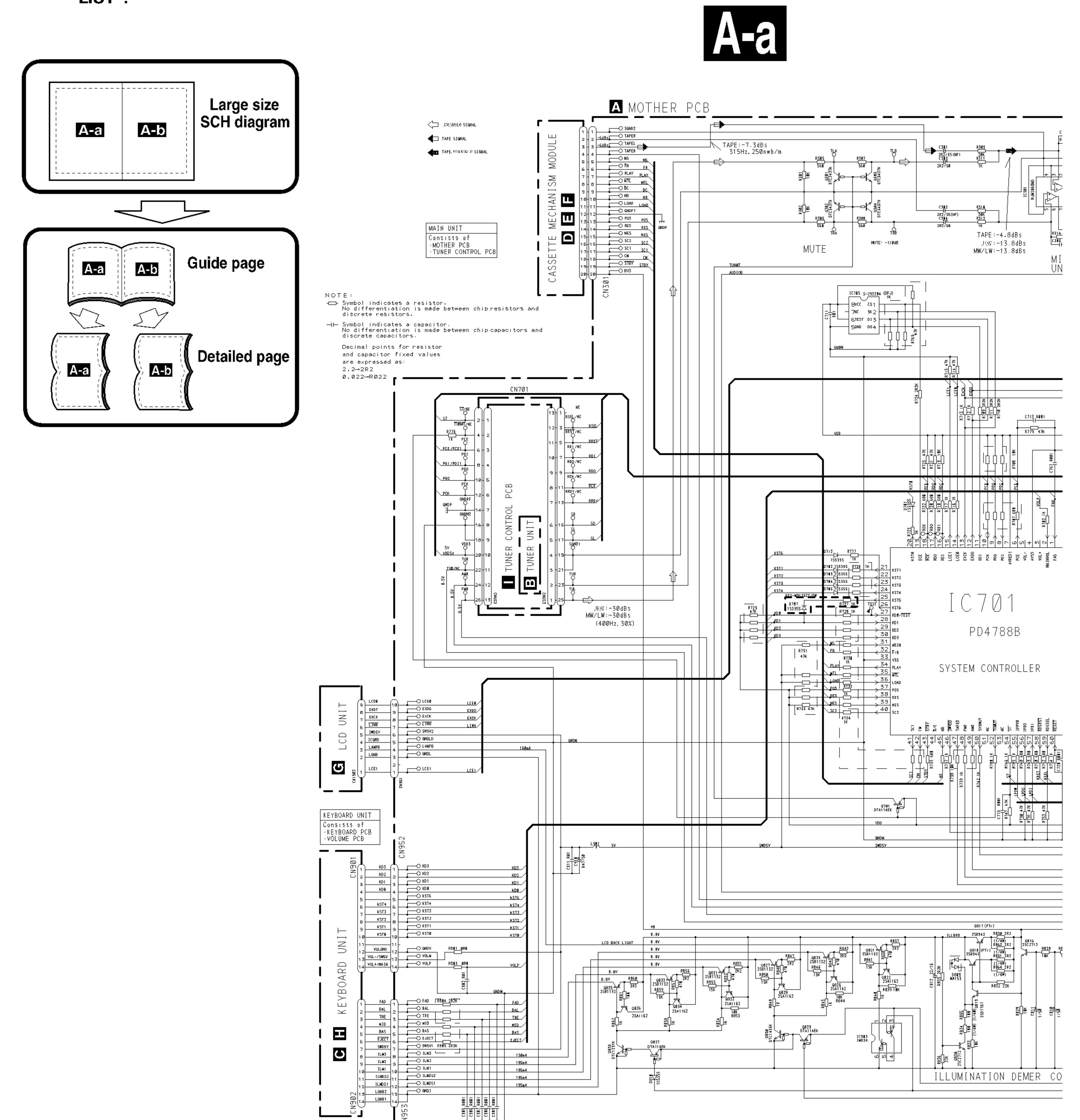
• CASSETTE MECHANISM MODULE SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ20P040FMC	46	Pinch Roller Unit	EXA1473
2	Washer	CBF1037	47	Reel Unit	EXA1484
	Washer	CBF1038	48	Head Base Unit	EXA1434
	Washer	CBG1003		Lever Unit	EXA1438
	Deck Unit	EWM1007		Gear Unit	EXA1436
J	Deck Offic		30	Gear Offic	
6	Screw(M2×5)	EBA1028	51	Frame Unit	EXA1476
7	Screw(M2×2.5)	EBA1037	52	Lever Unit	EXA1425
8	Spring	EBH1531	53	Head Assy(HD1)	EXA1481
9	Spring	EBH1589	54	Motor Unit(M1)	EXA1497
	Cushion	ENM1034	55	Washer	HBF-179
1 1	Chrina	CDU1616	E.C.	Carall	BMZ20P022FMC
	Spring	EBH1515		Screw Decister/D1\	
	Spring	EBH1587		Resistor(R1)	RD1/4HM181J
	Spring	EBH1517		Washer	YE20FUC
	Spring	EBH1547		Connector(CN251)	CKS1711
15	Spring	EBH1519	60	Connector(CN252)	CKS2127
16	Spring	EBH1537	61	Connector(CN253)	CKS2129
	Cord	EDD1015		Spare Unit	EXA3023
	Photo-reflector(EGN2, 3)			Spring	EBH1545
	Photo-Interrupter(EGN1)			Switch(S2)	ESG1004
	Roller	ENR1031		Roller	ENR1023
20	ROHEI	LIVITIOSI	05	Ronei	LIVITIOZS
21	Shaft	ELA1362	66	Cover	ENC1412
22	Roller	ELA1348	67	Cover	ENC1413
23	Arm	ENC1416	68	Spring	EBH1546
24	Arm	ENC1397	69	Washer	EBE1008
25	Guide	ENC1398	70	Washer	YE15FUC
26	Holder	ENC1417	71	Lever Unit	EXA1424
	Lever	ENC1449		Spring	EBL1026
	Arm	ENC1443		Screw(M2×2)	CBA1250
				•	
	Roller	ENR1027		Capacitor(C1)	CEA4R7M35LS2
30	Belt	ENT1027	75	Bracket	ENC1472
31	Gear	ENV1347	76	Inductor(L1)	ETH0001
32	Collar	ENV1508	77	Cushion	ENM1036
33	Gear	ENV1350			
34	Flywheel	ENV1410			
	Worm Gear	ENV1439			
26	Worm Wheel	ENV1440			
	Gear	ENR1028			
	Lever	ENV1455			
	Arm	ENV1445			
40	Gathering PCB	ENX1029			
41	Gathering PCB	ENX1041			
42	Switch(S1)	ESG1004			
	Motor Unit(M2)	EXA1485			
	Chassis Unit	EXA1494			
	Pinch Roller Unit	EXA1472			
70	on or one				

3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".



A-b

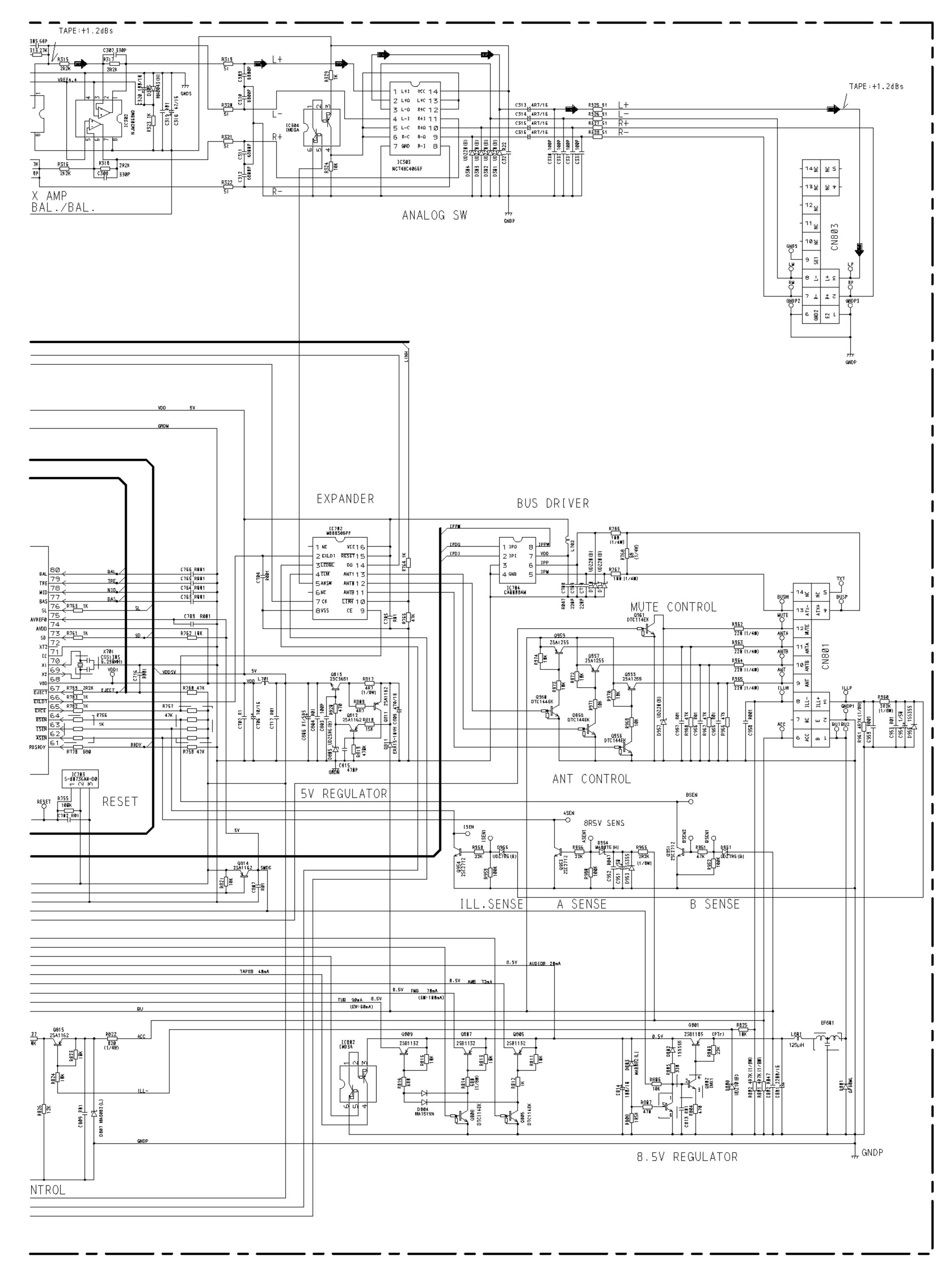
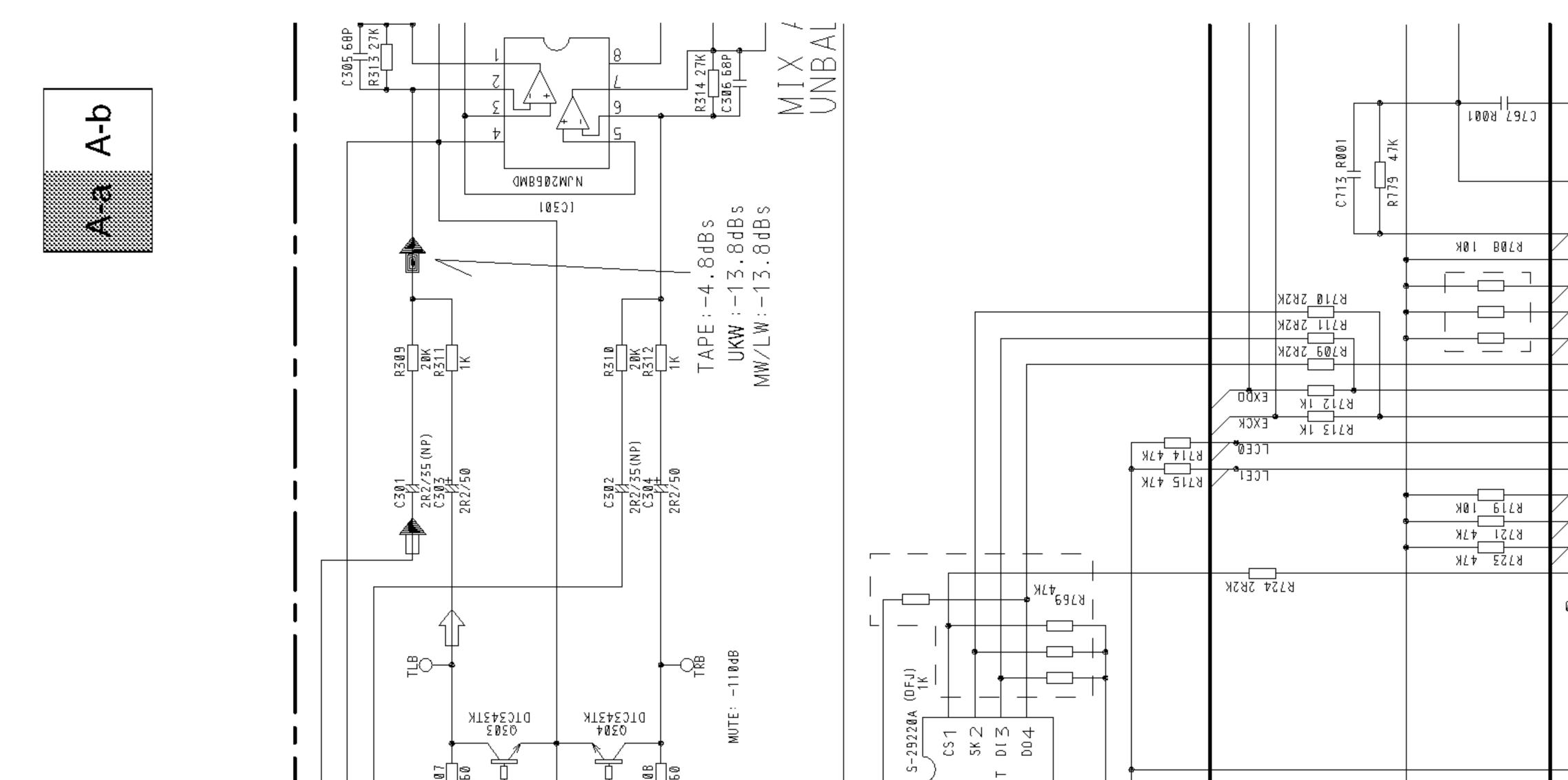
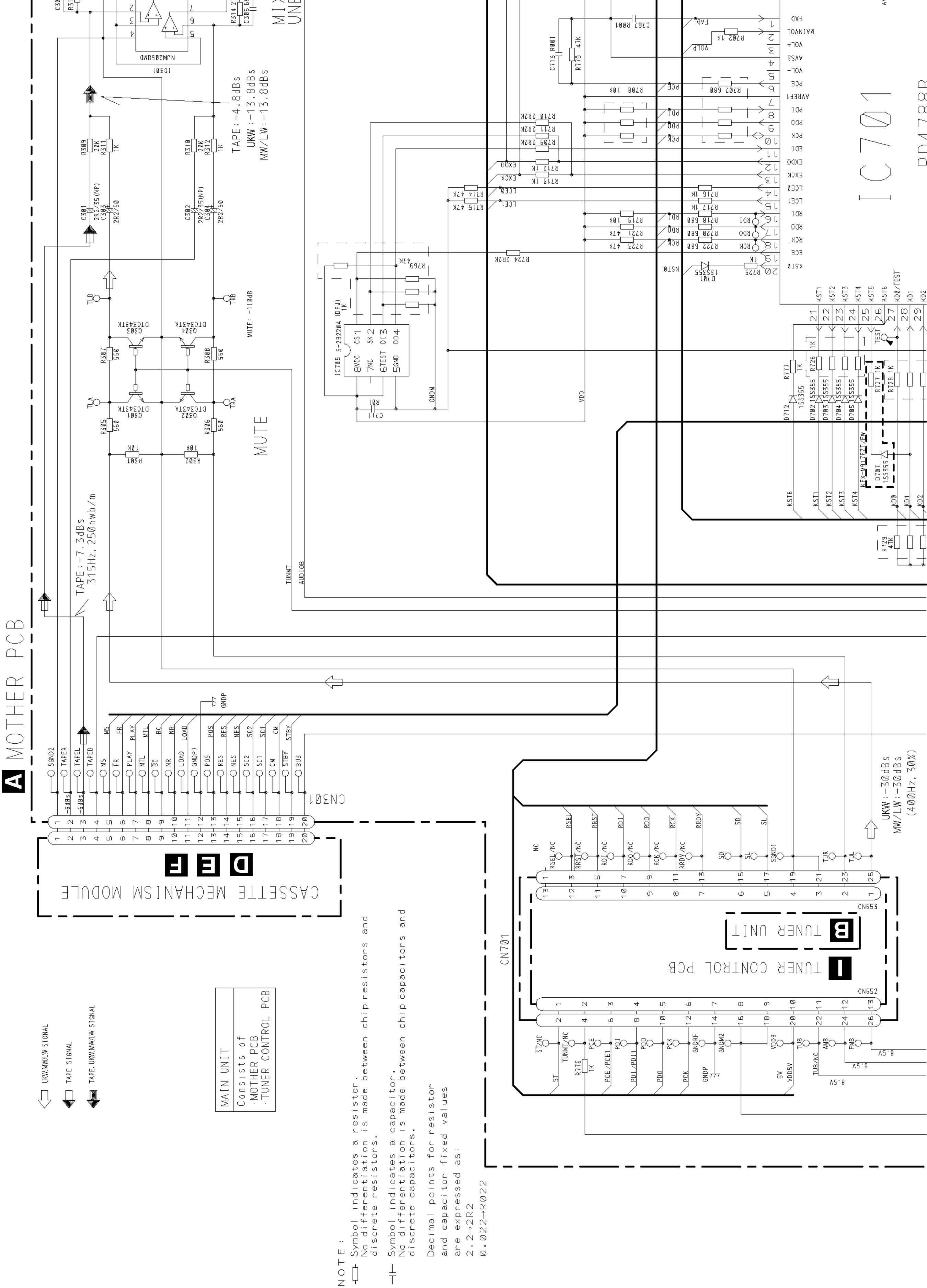
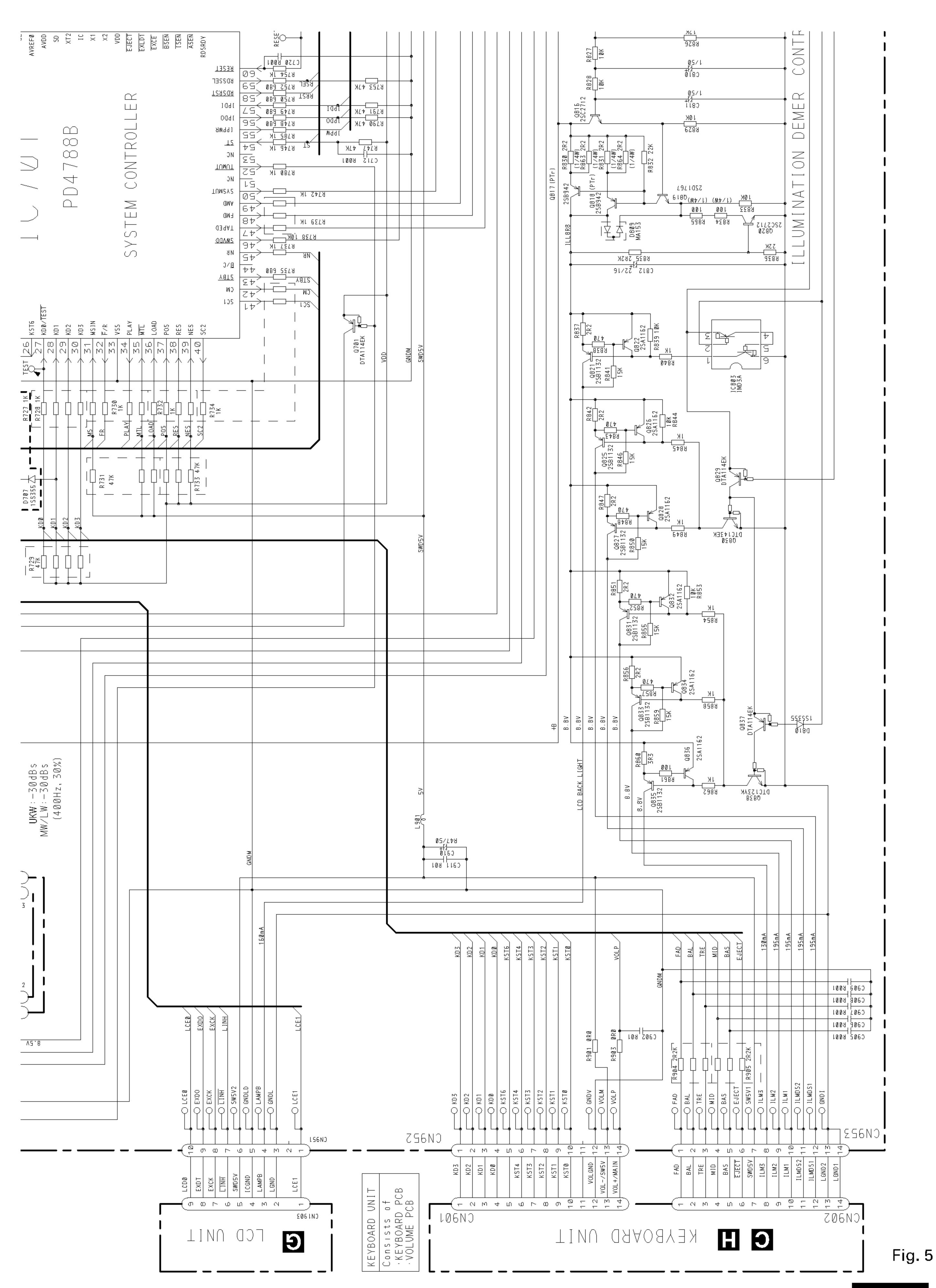


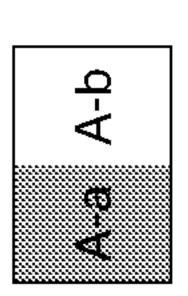
Fig. 4



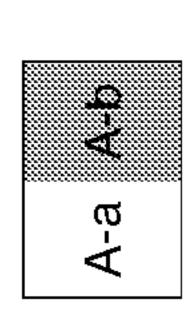


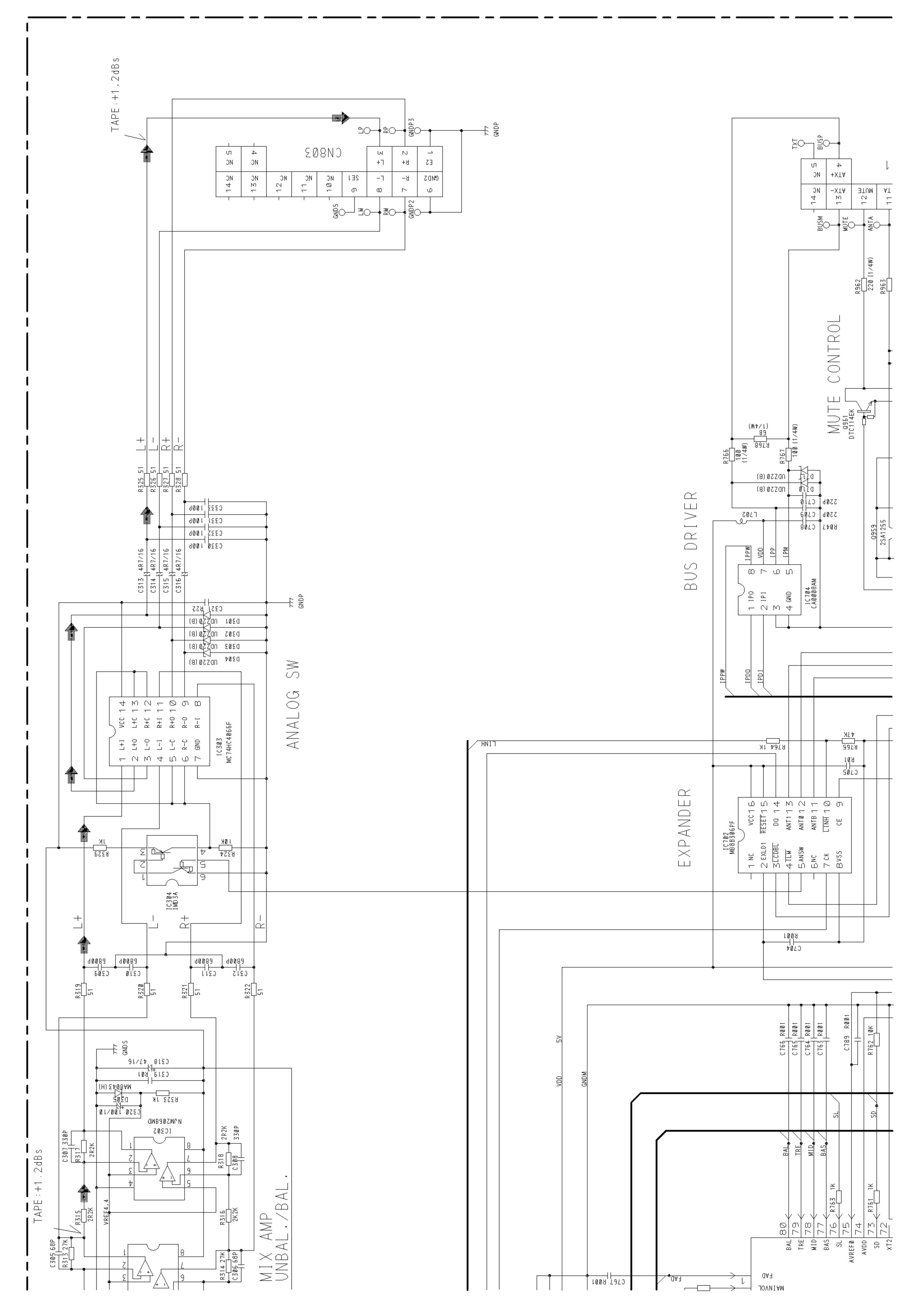


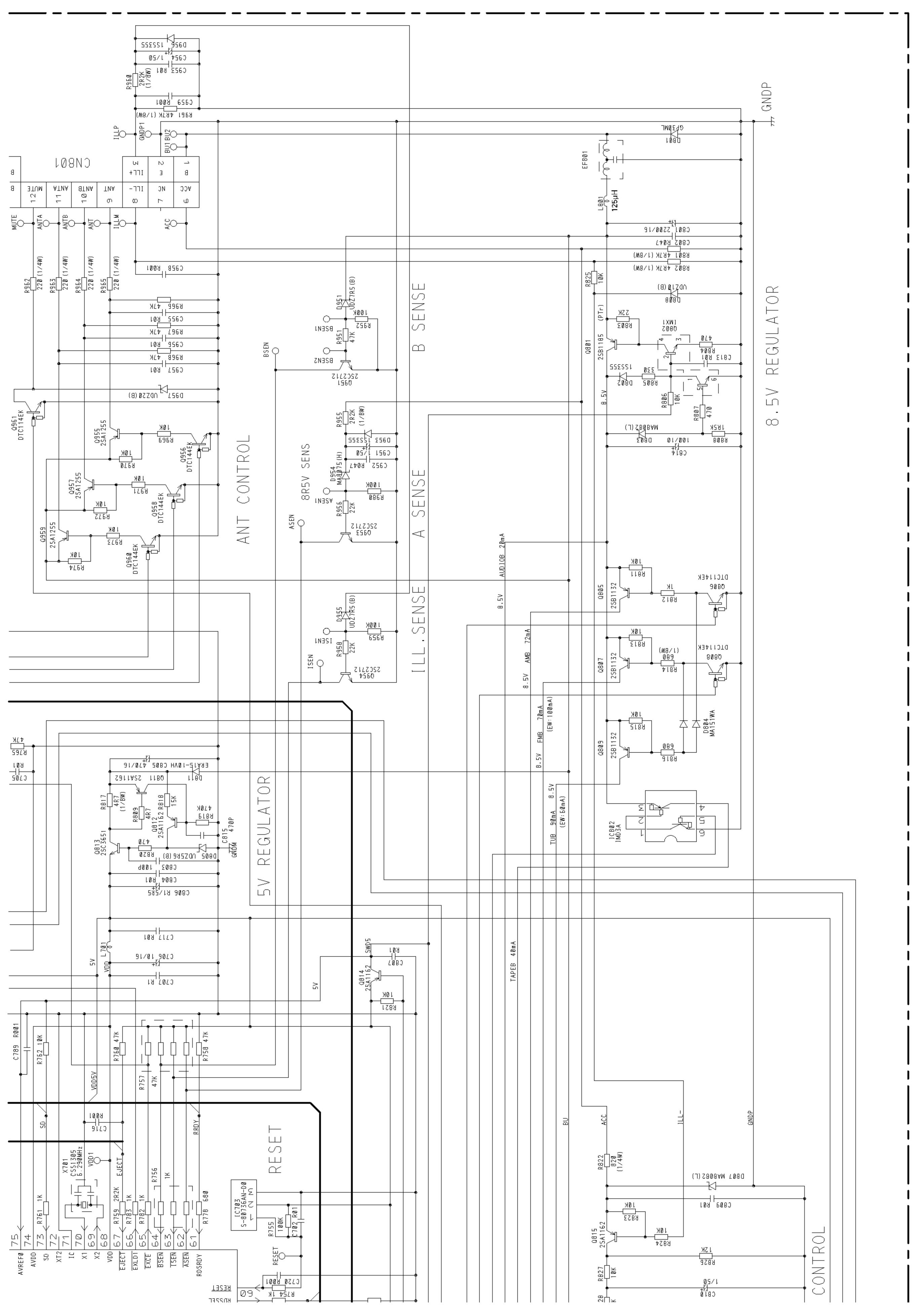
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A-a







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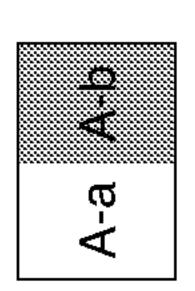
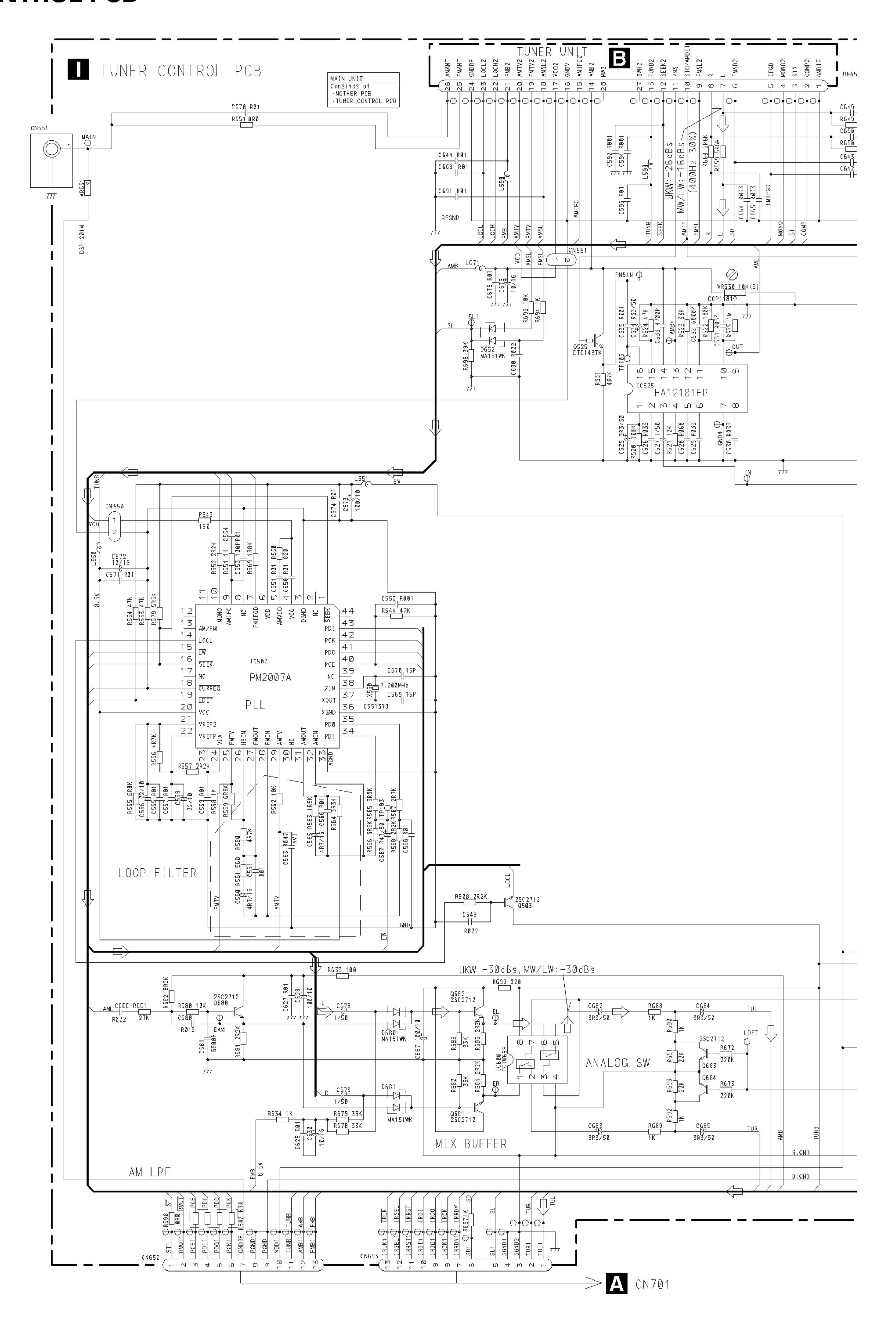


Fig. 6

3.2 TUNER CONTROL PCB



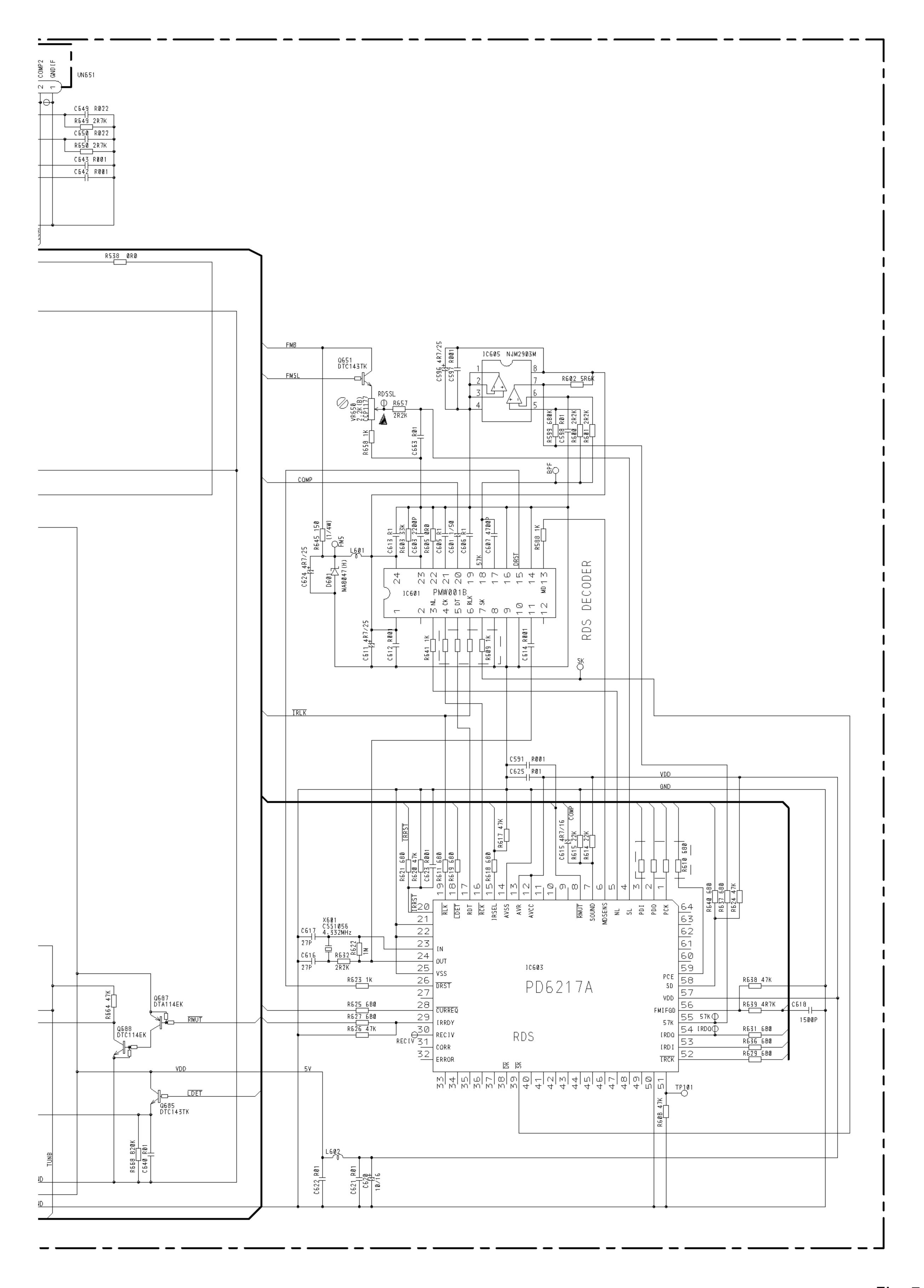
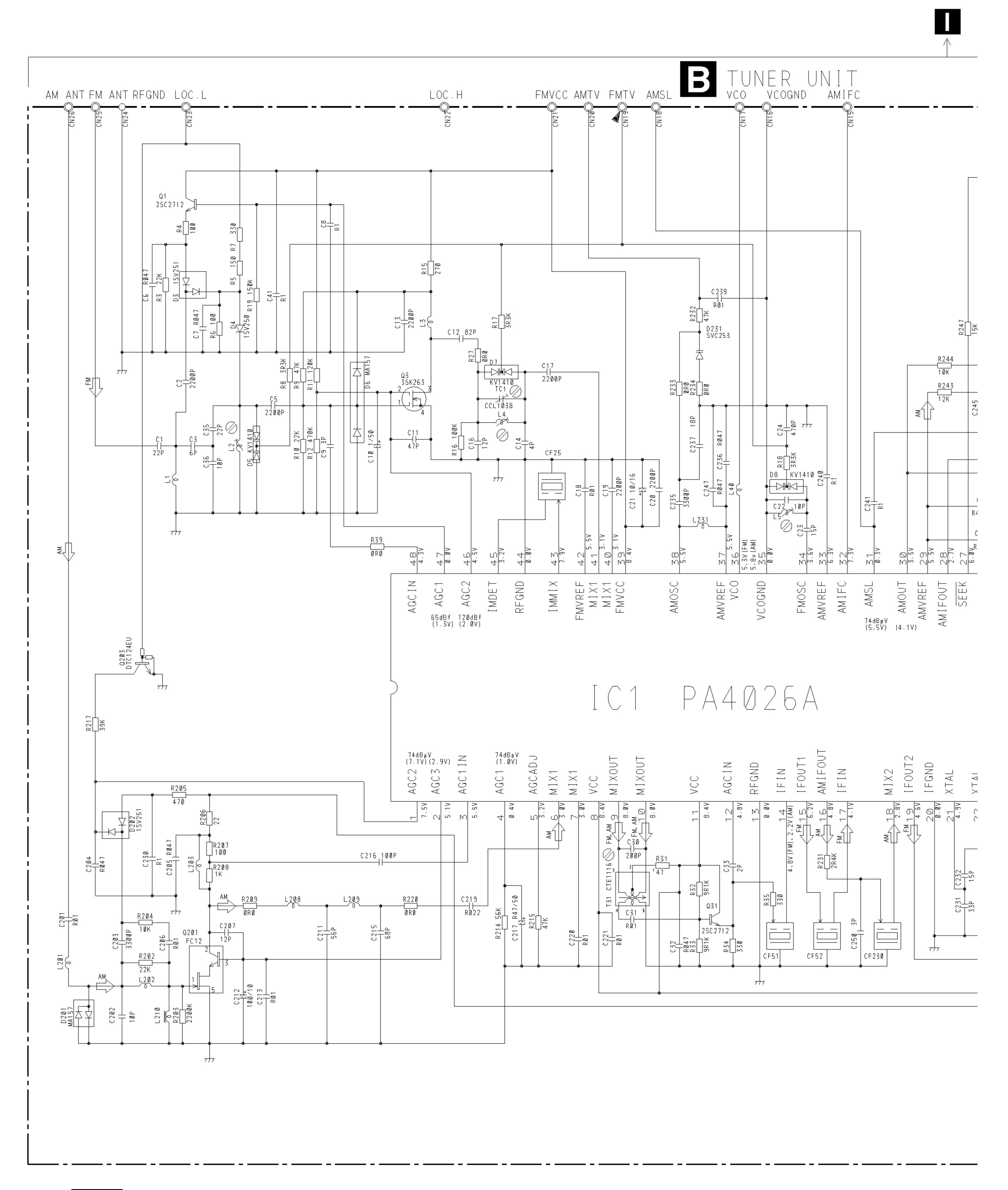
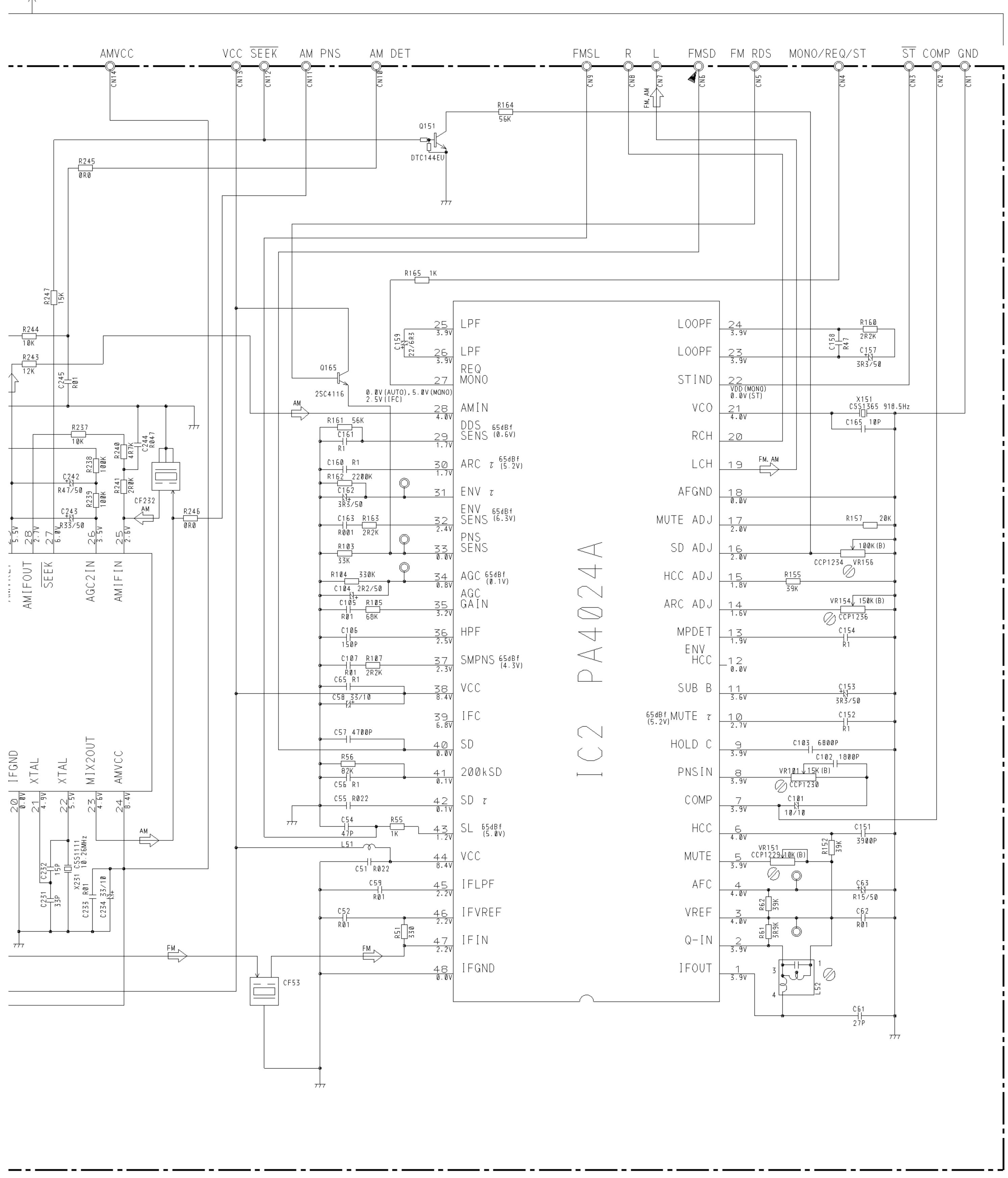


Fig. 7

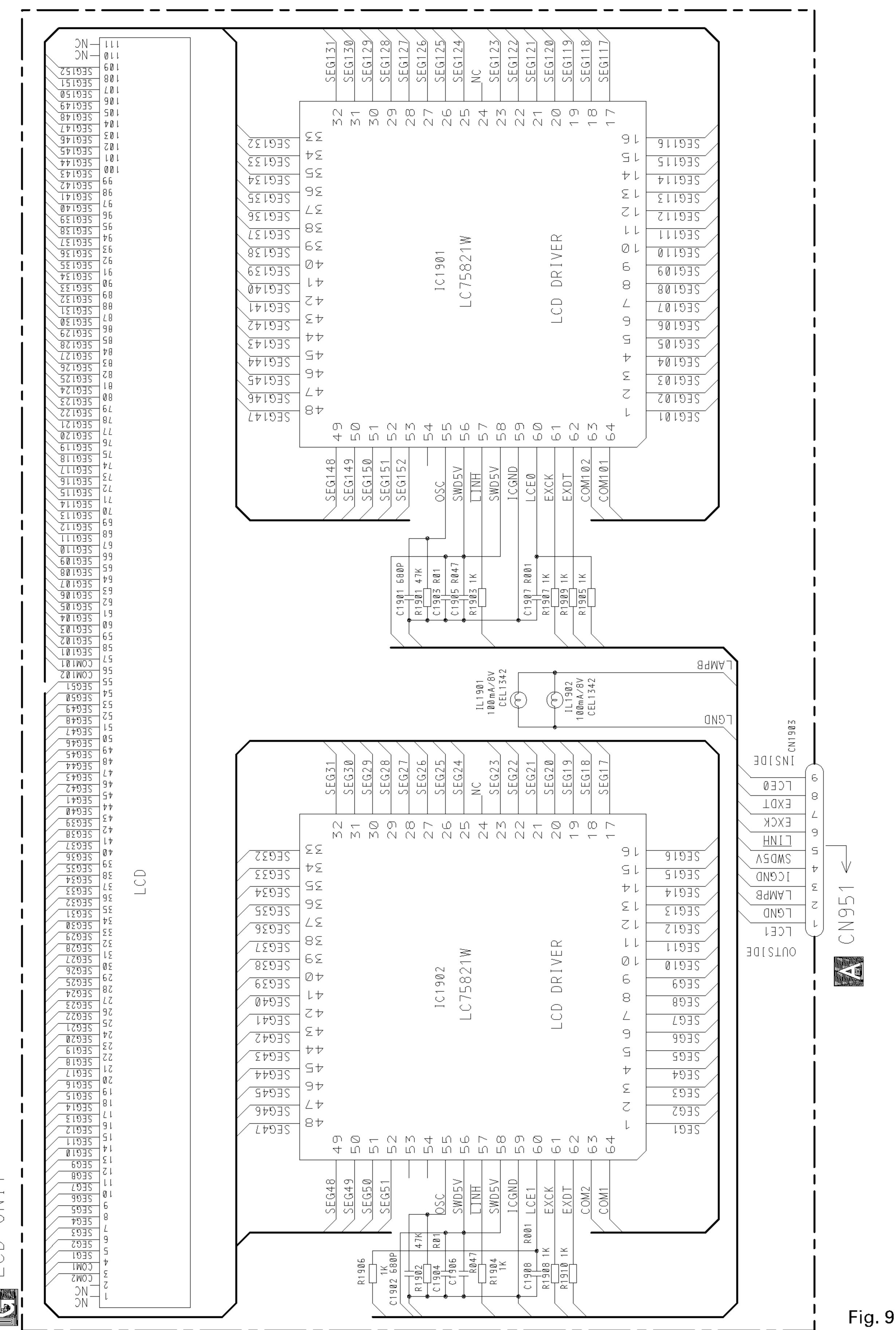
3.3 TUNER UNIT



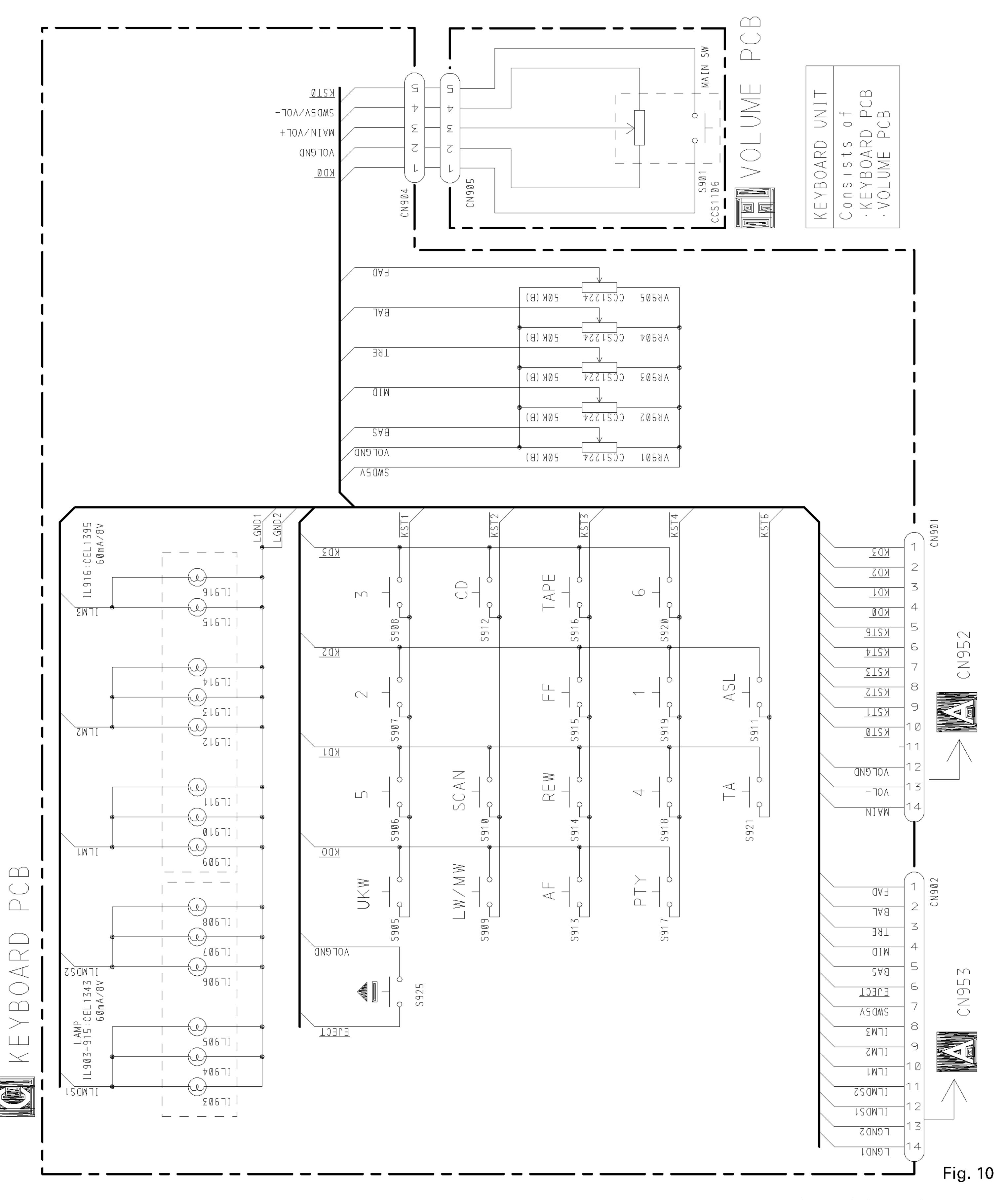




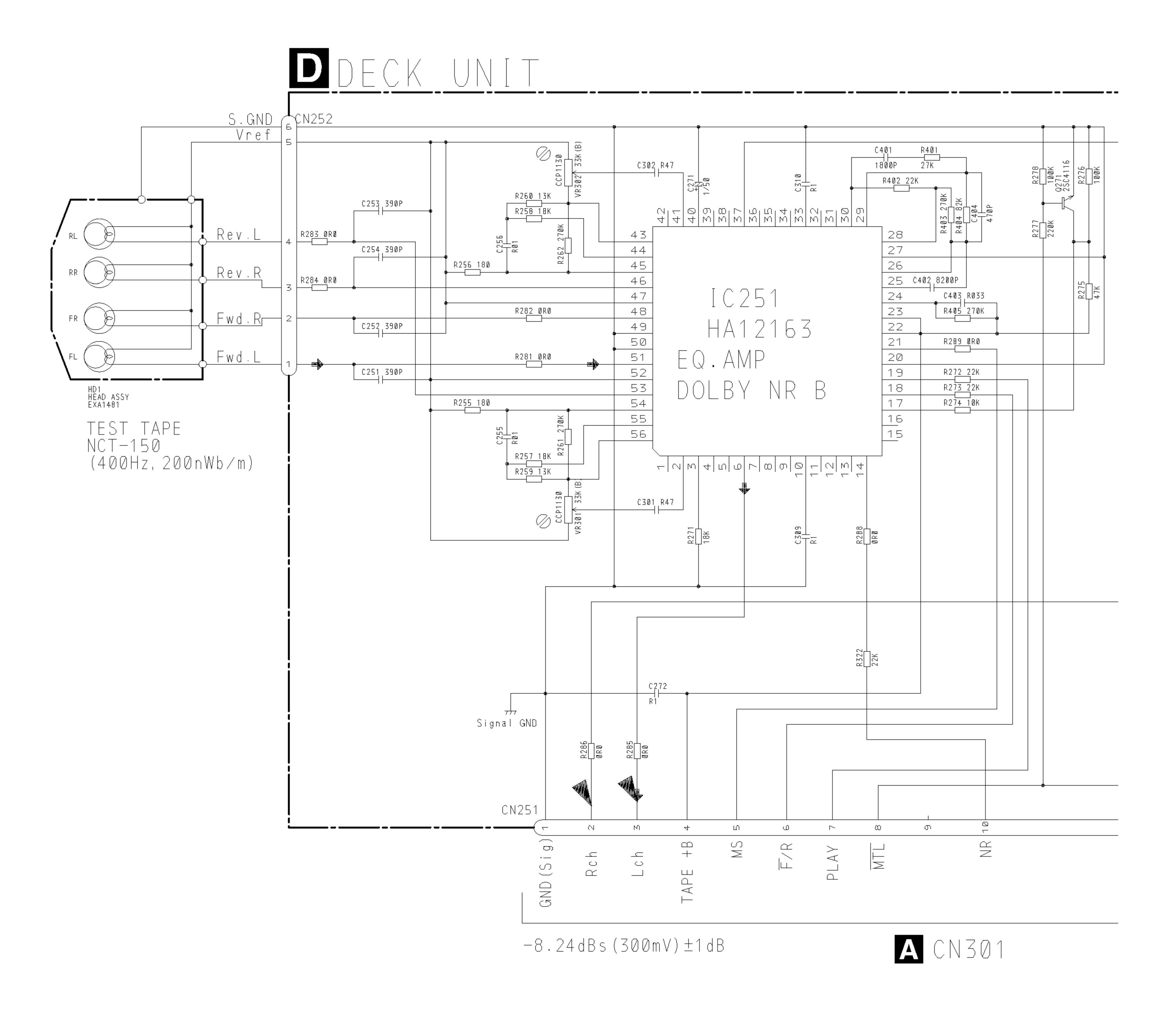
3.4 LCD UNIT



3.5 KEYBOARD PCB, VOLUME PCB



3.6 CASSETTE MECHANISM MODULE



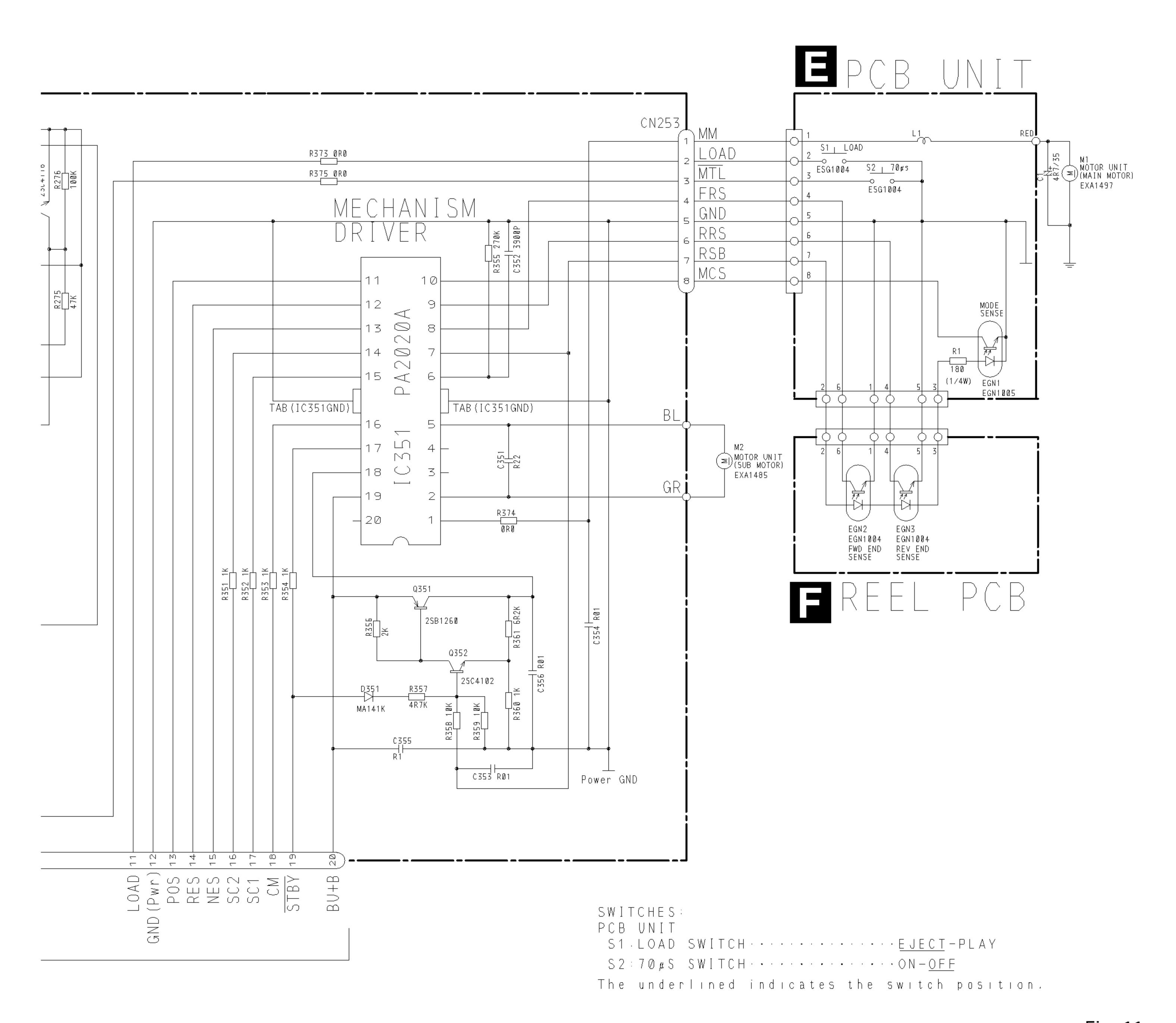


Fig. 11



4. PCB CONNECTION DIAGRAM

4.1 MOTHER PCB

NOTE FOR PCB DIAGRAMS

The parts mounted on this
 PCB include all necessary
 parts for several
 destination.
 For further information for
 respective destinations, be
 sure to check with the
 schematic diagram.

Q817 Q818 Q801 Q802

Q819

Q961 Q957 IC303 Q959 Q820 Q955 IC304

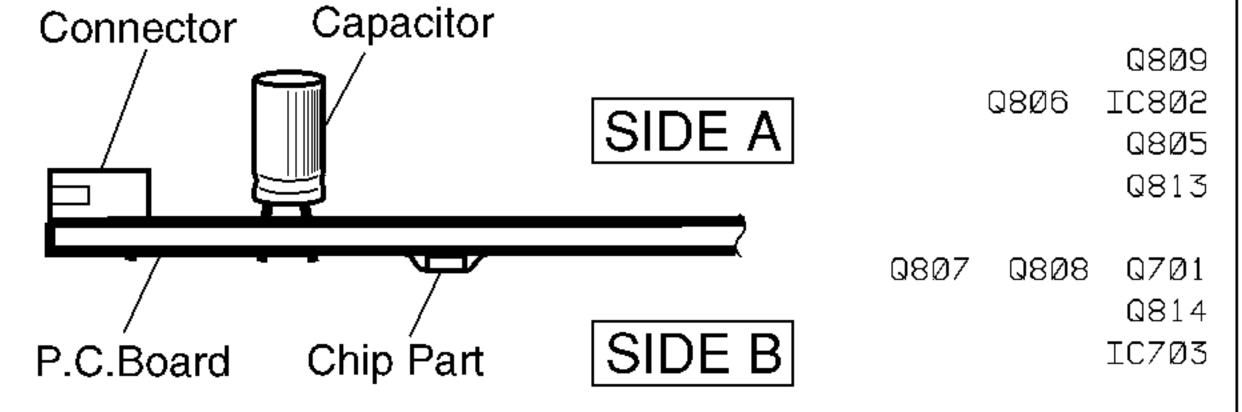
Q960 IC302 Q815 Q958 Q301 Q303 Q953 Q954 Q956 IC301

2. Viewpoint of PCB diagrams

Q812 Q3Ø2 Q816 Q951 IC7Ø4

Q3Ø4

Q811



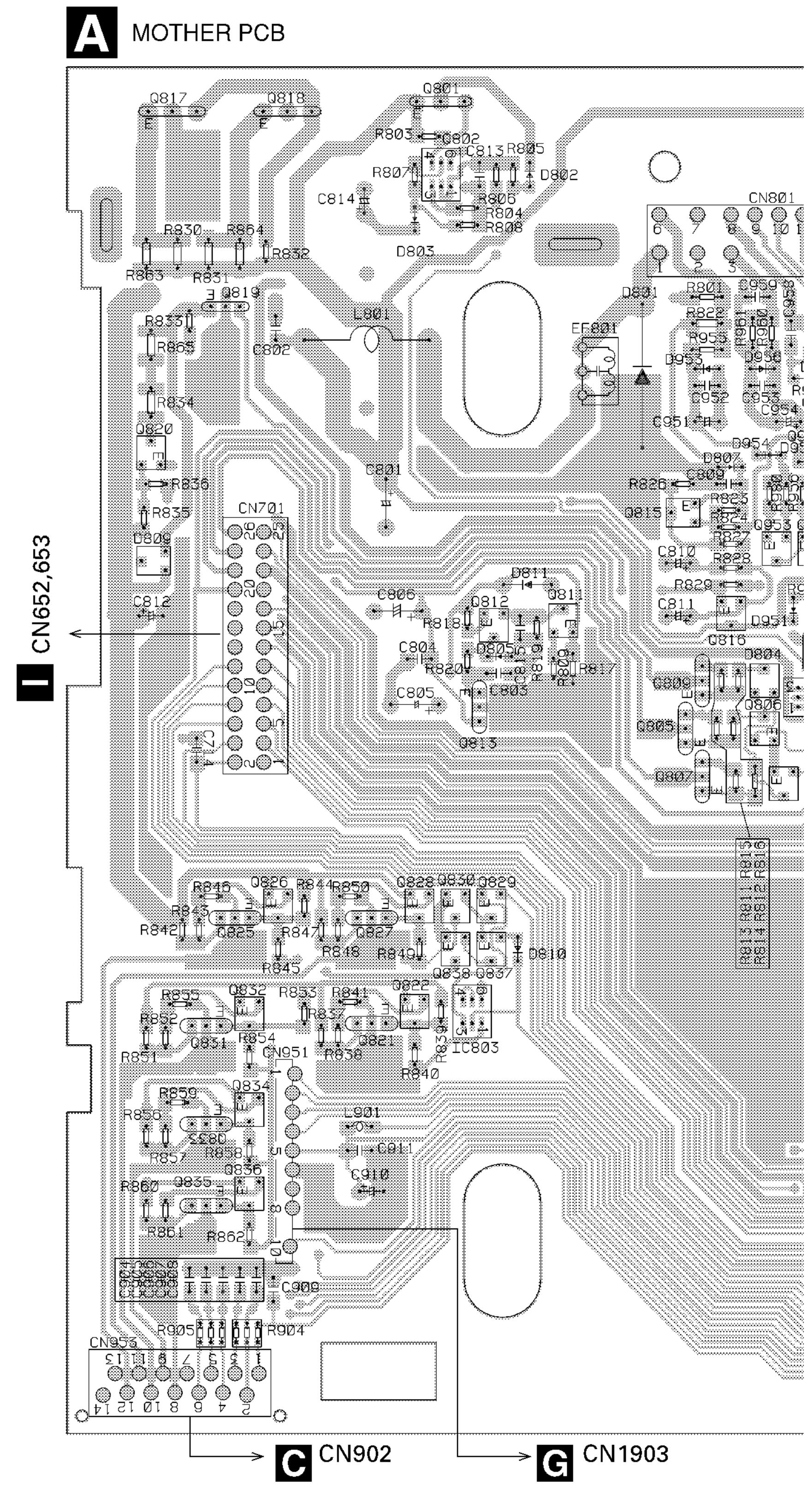
Q826 Q828 Q830 Q829

Q825 Q827 IC7Ø2 Q822 Q838 Q837 Q832

Q831 Q821 IC7Ø1 IC8Ø3

Q833 Q834

Q836 Q835 IC705



SIDE A

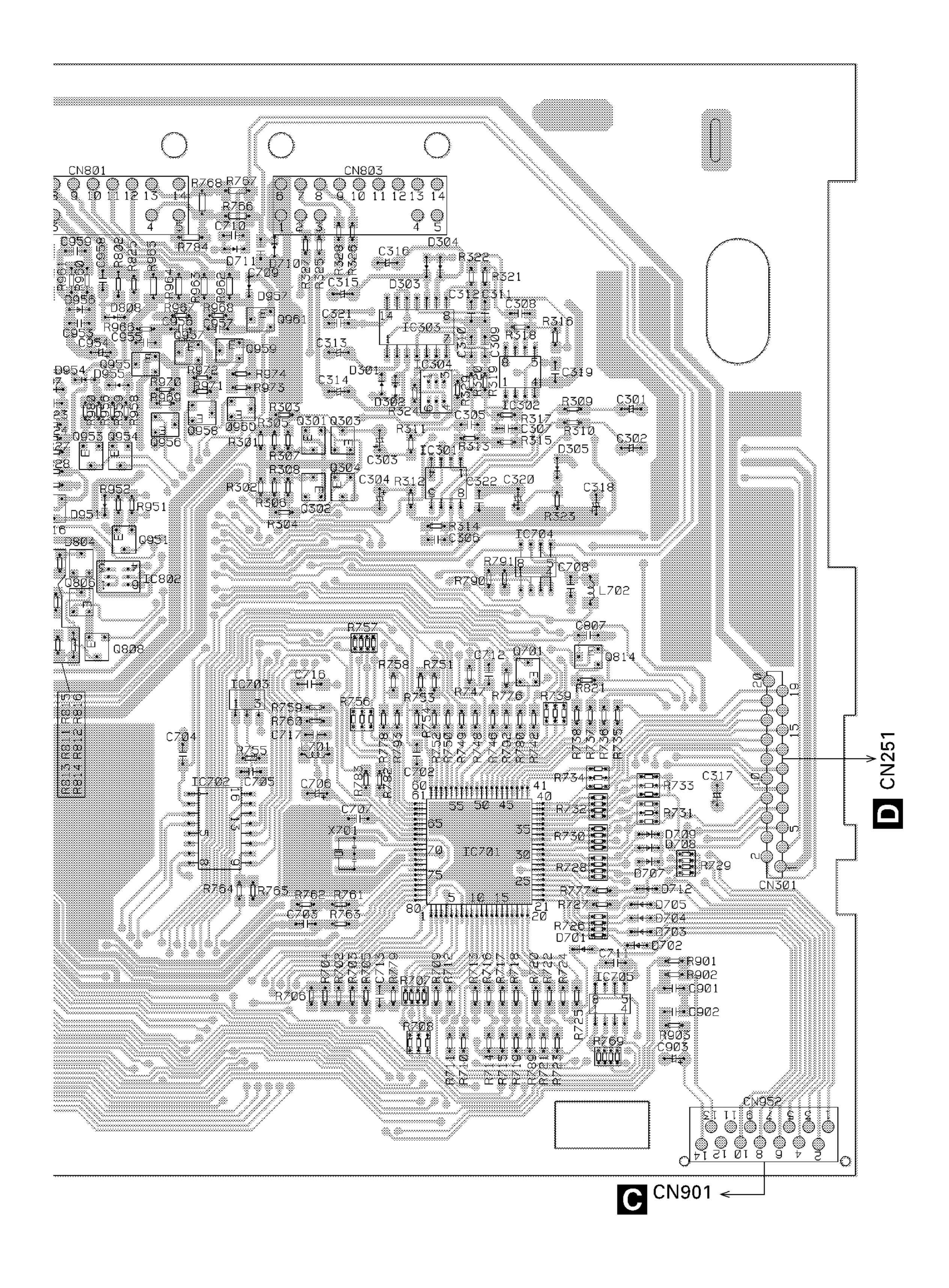
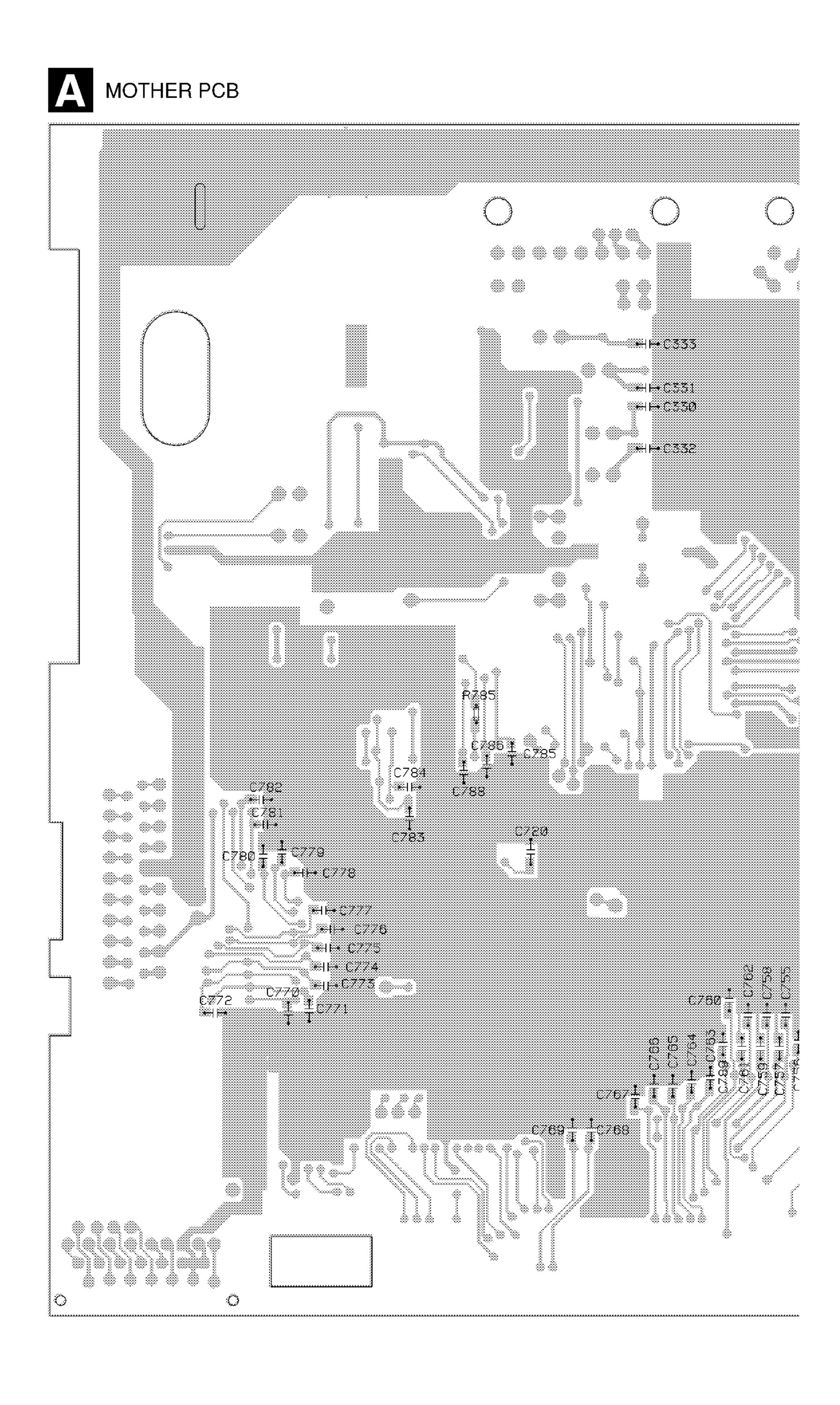


Fig. 12





SIDE B

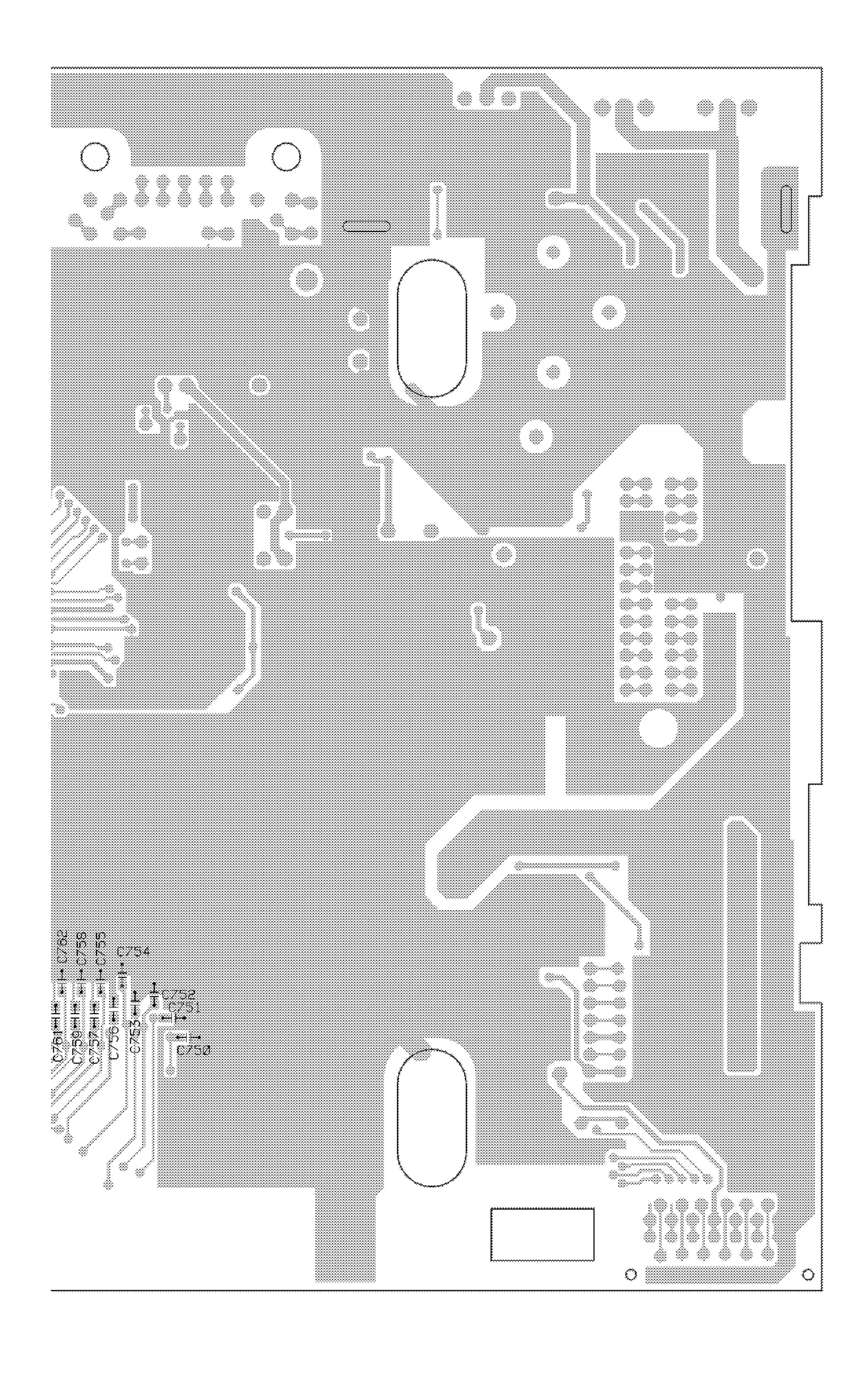
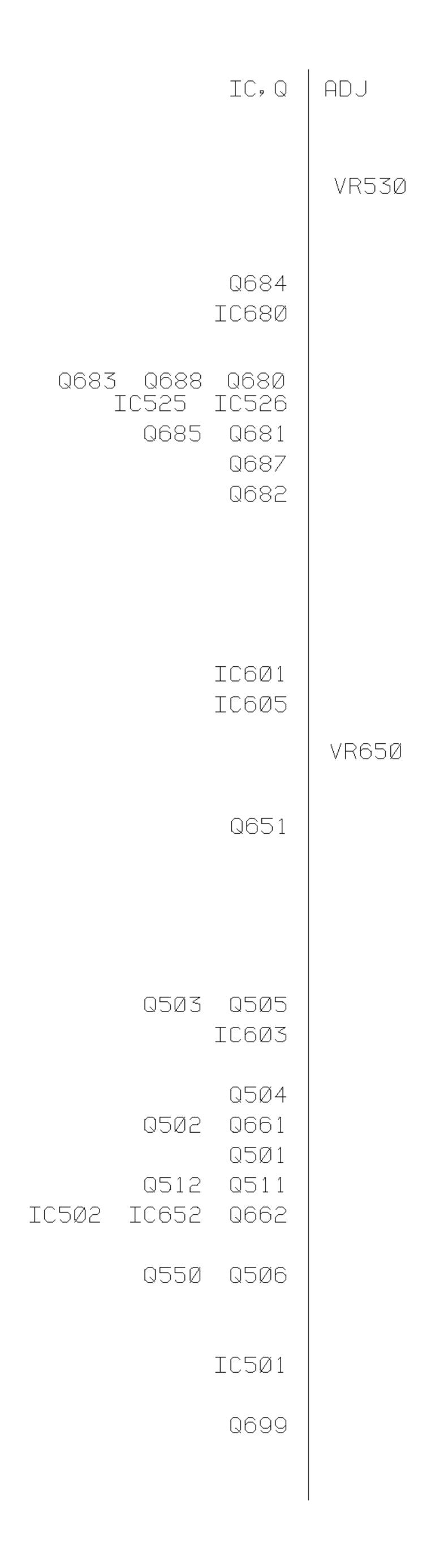
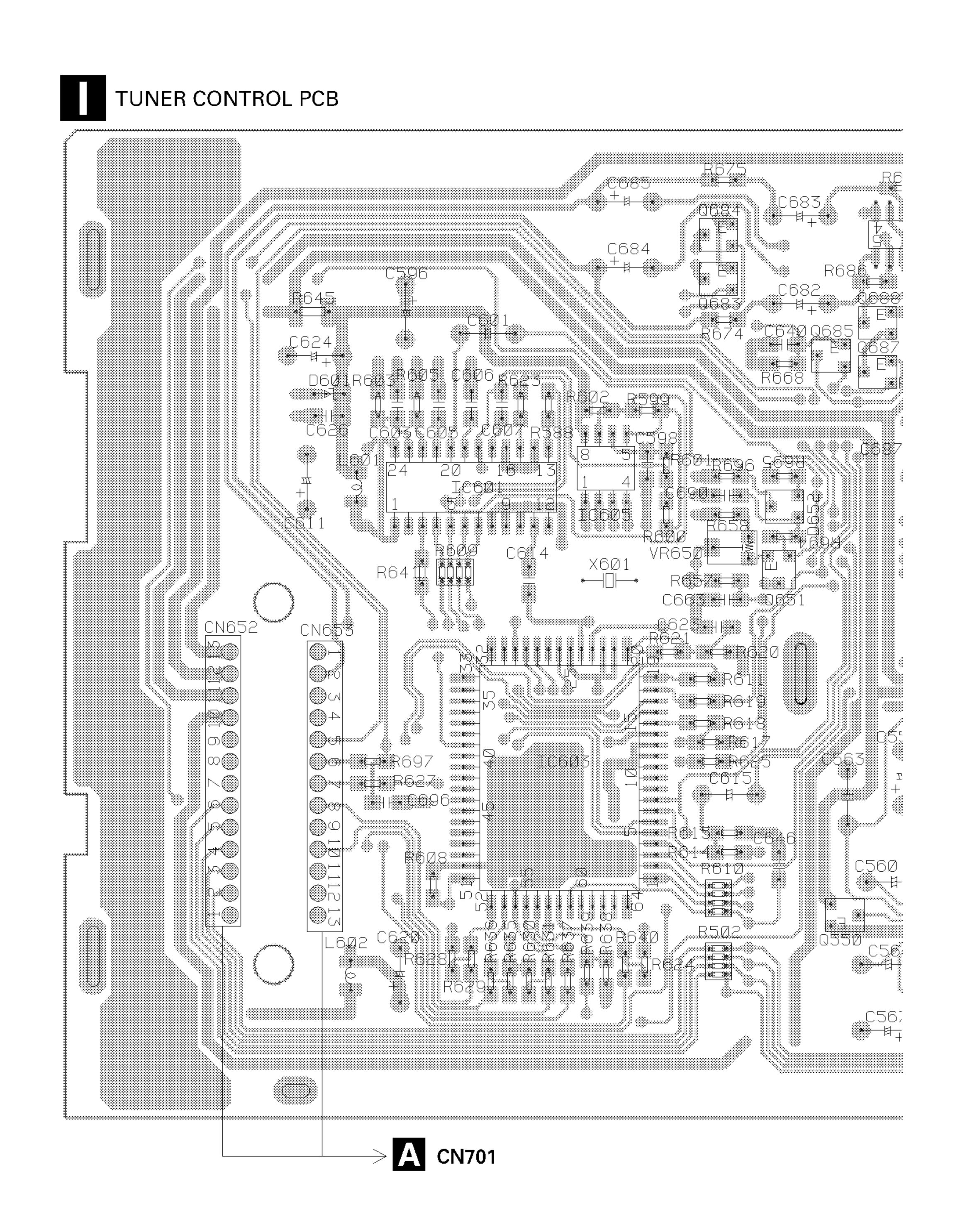


Fig. 13

4.2 TUNER CONTROL PCB





SIDE A

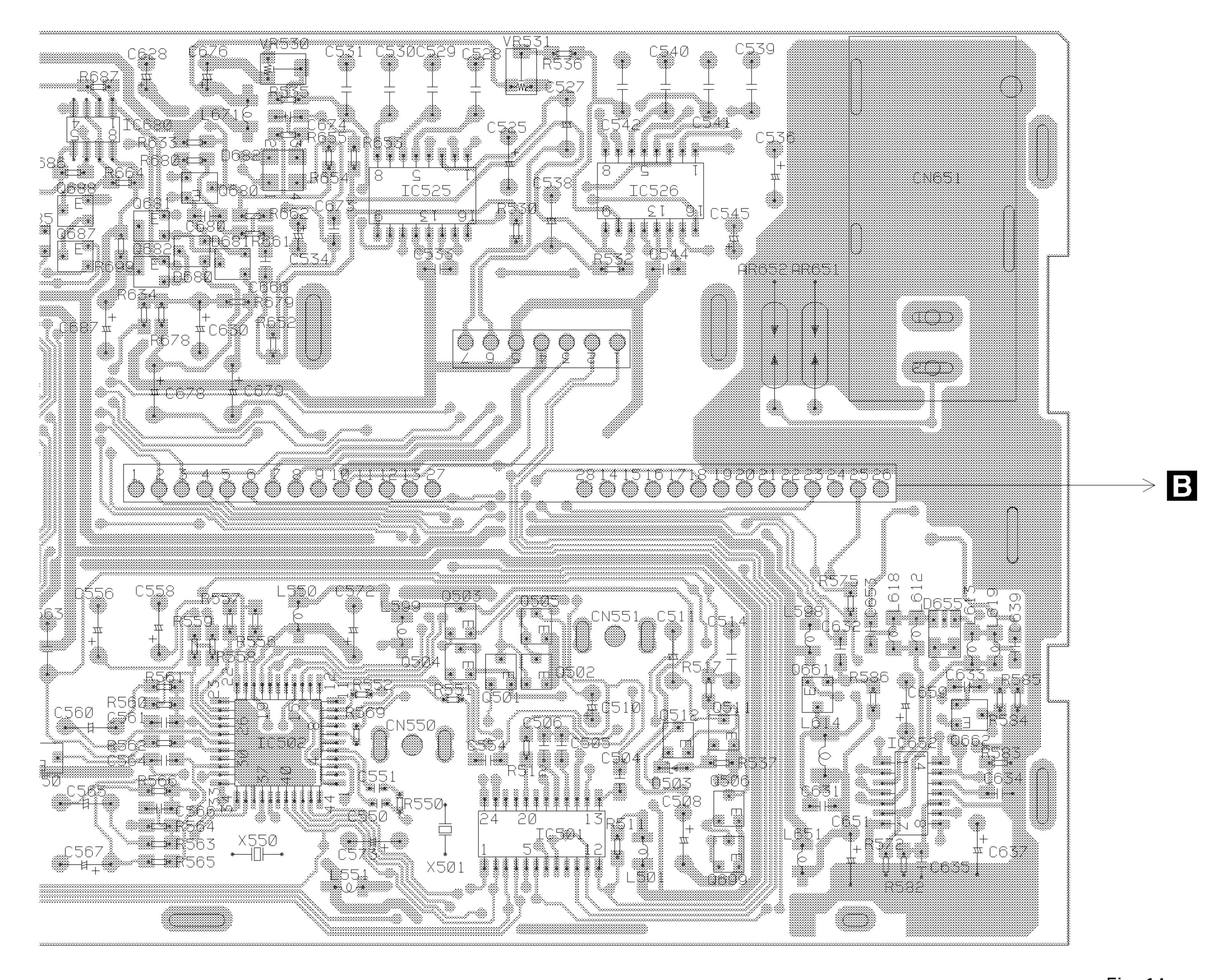
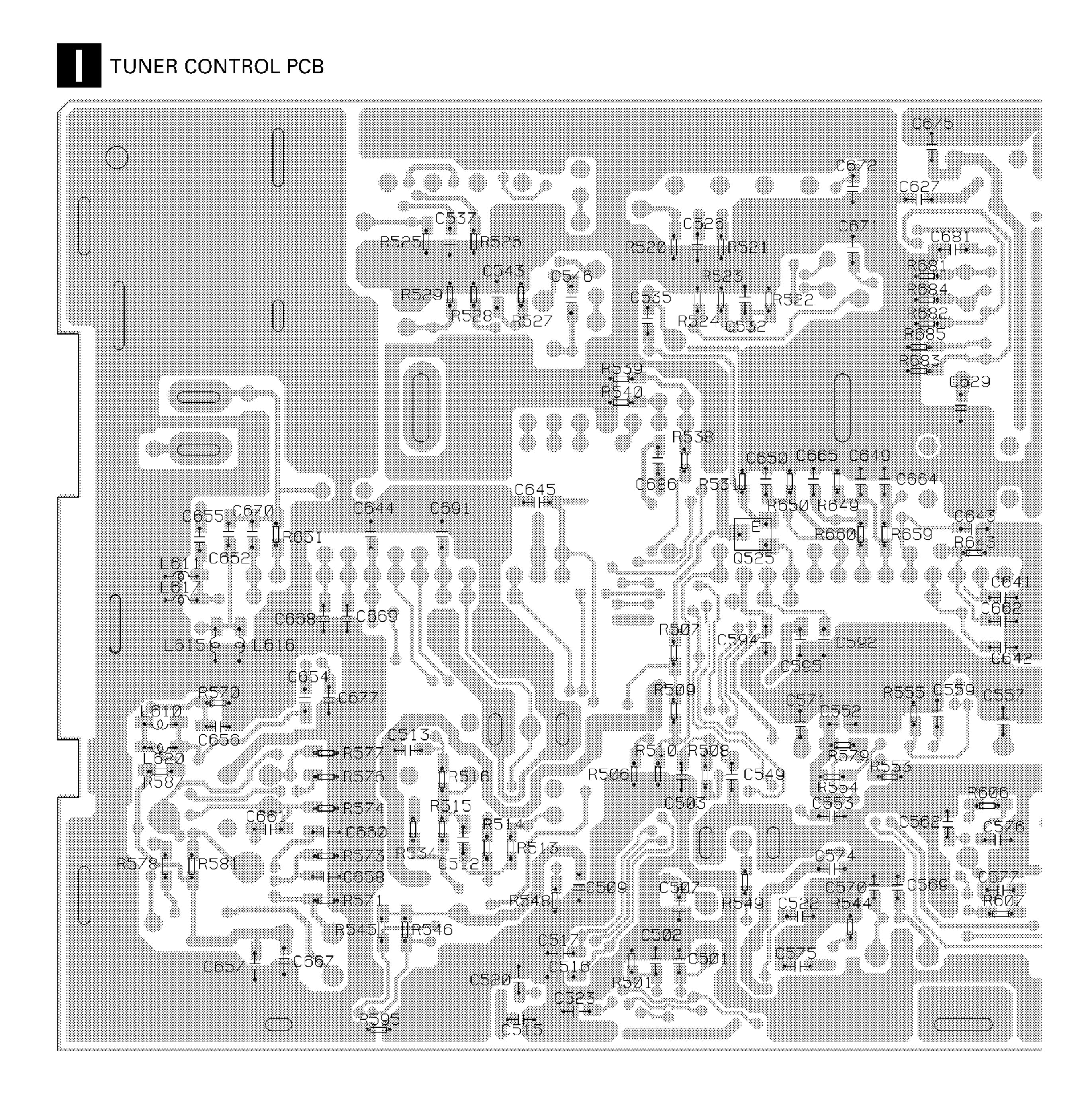
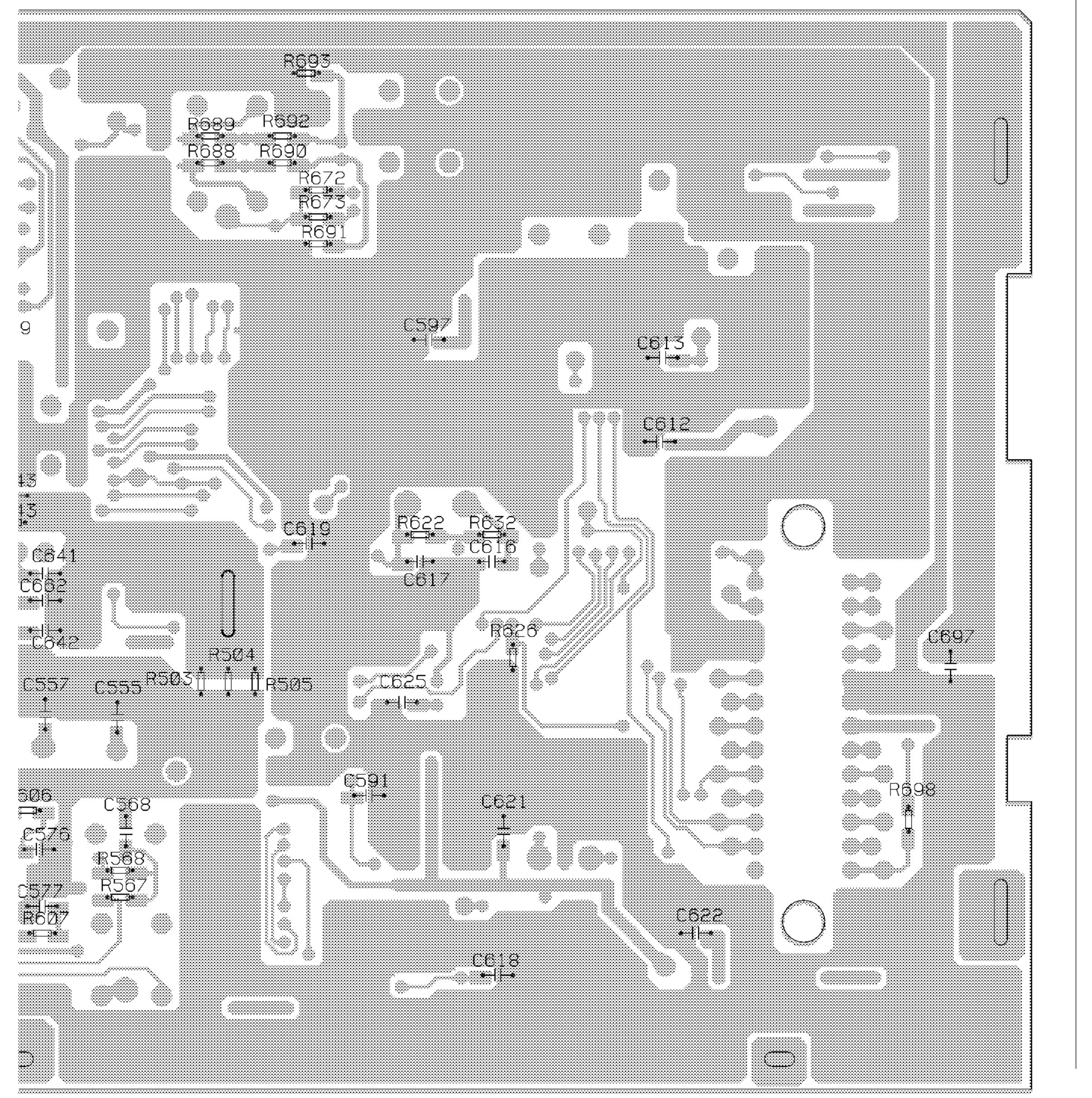


Fig. 14



SIDE B

Q



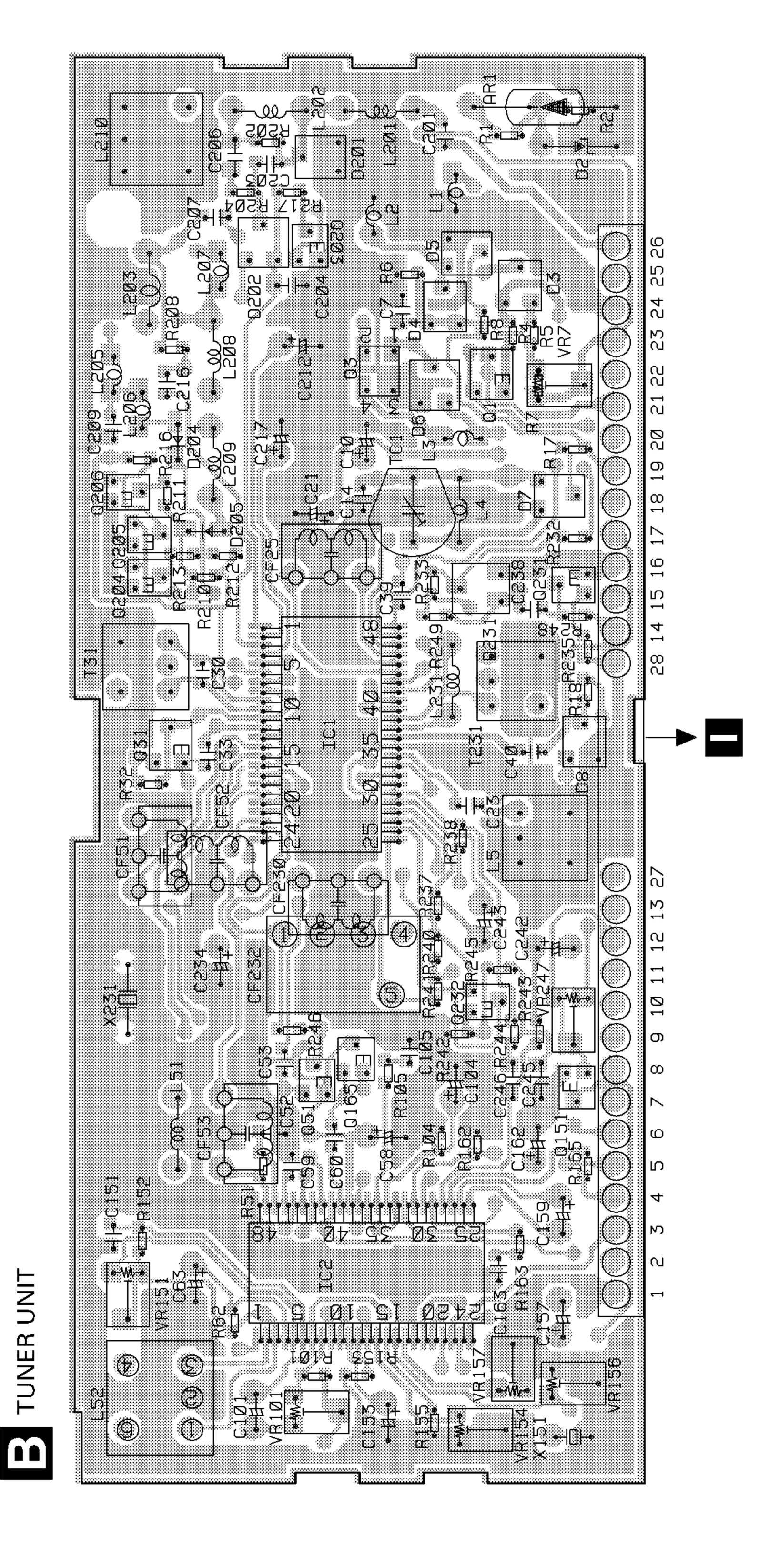
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Q525

Fig. 15

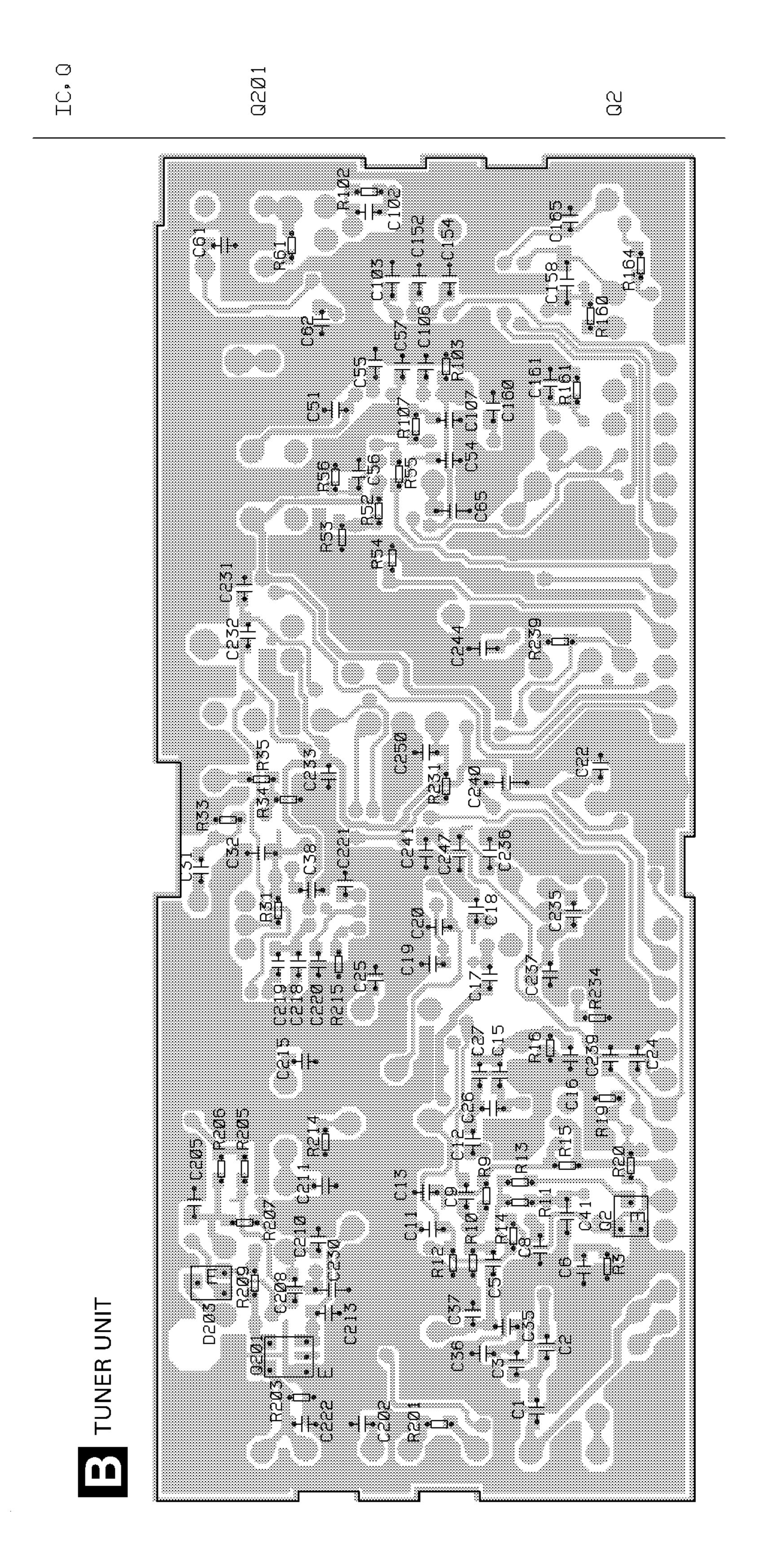
4.3 TUNER UNIT

SIDE A



HDJ	T31 L52 VR151	VR1Ø1	L4 TC1 L5 VR154	VR156
IC, Q	Q2Ø6 Q2Ø5 Q2Ø4	051 IC2 IC1 Q2Ø3 Q165 Q3	Q232 Q1 Q151	

Fig. 16

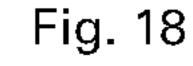


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SIDE B

Fig. 17

4.4 KEYBOARD PCB, VOLUME PCB KEX-M9176ZT/EW VOLUME VR905 1 VR**902**

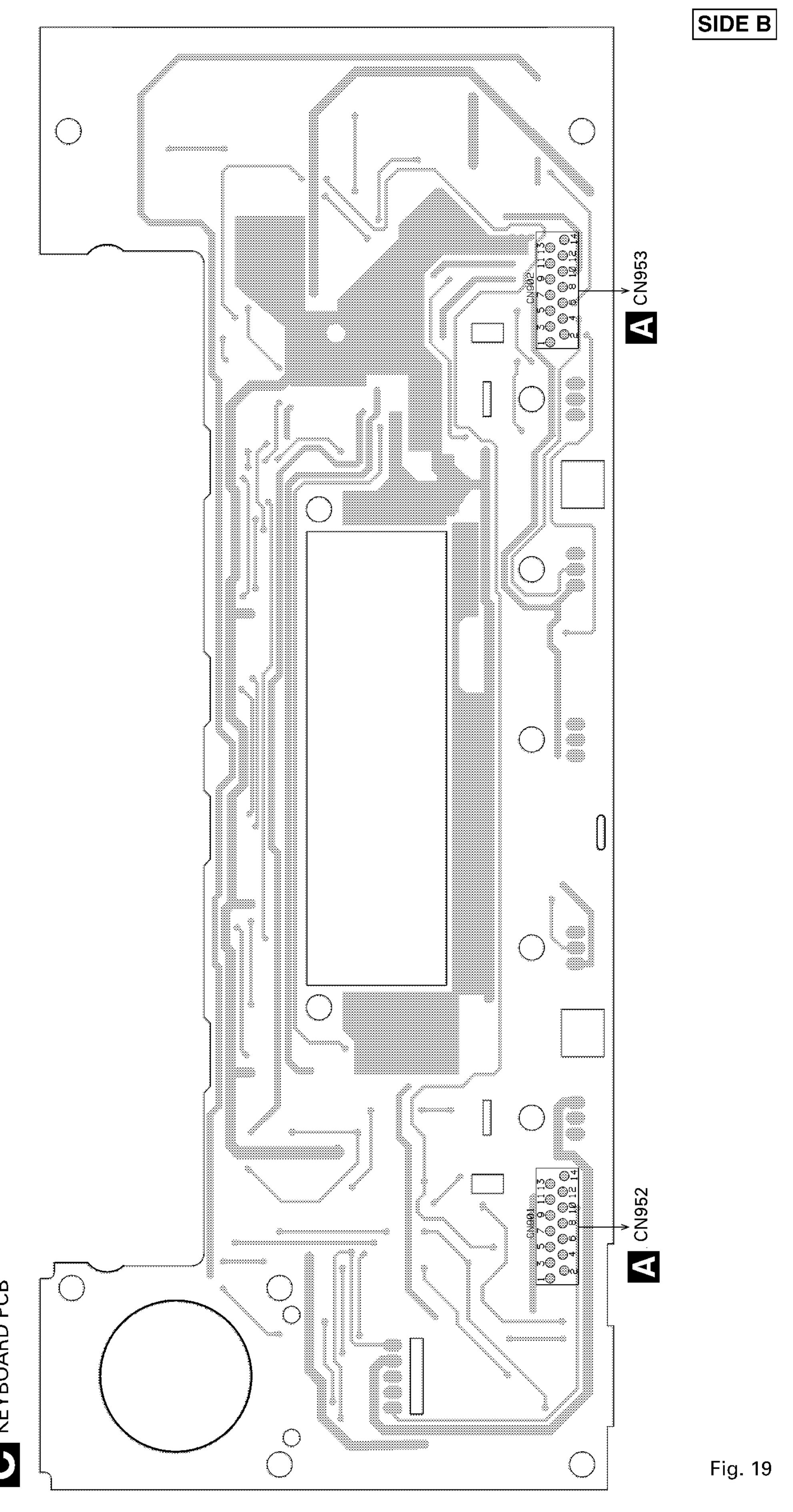


SIDE A



VOLUME

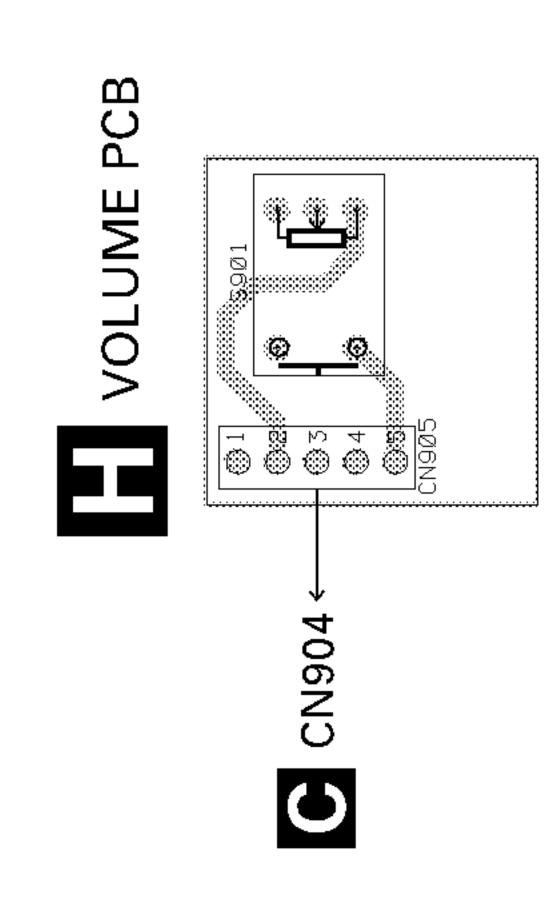
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● KEX-M9076ZT/EW





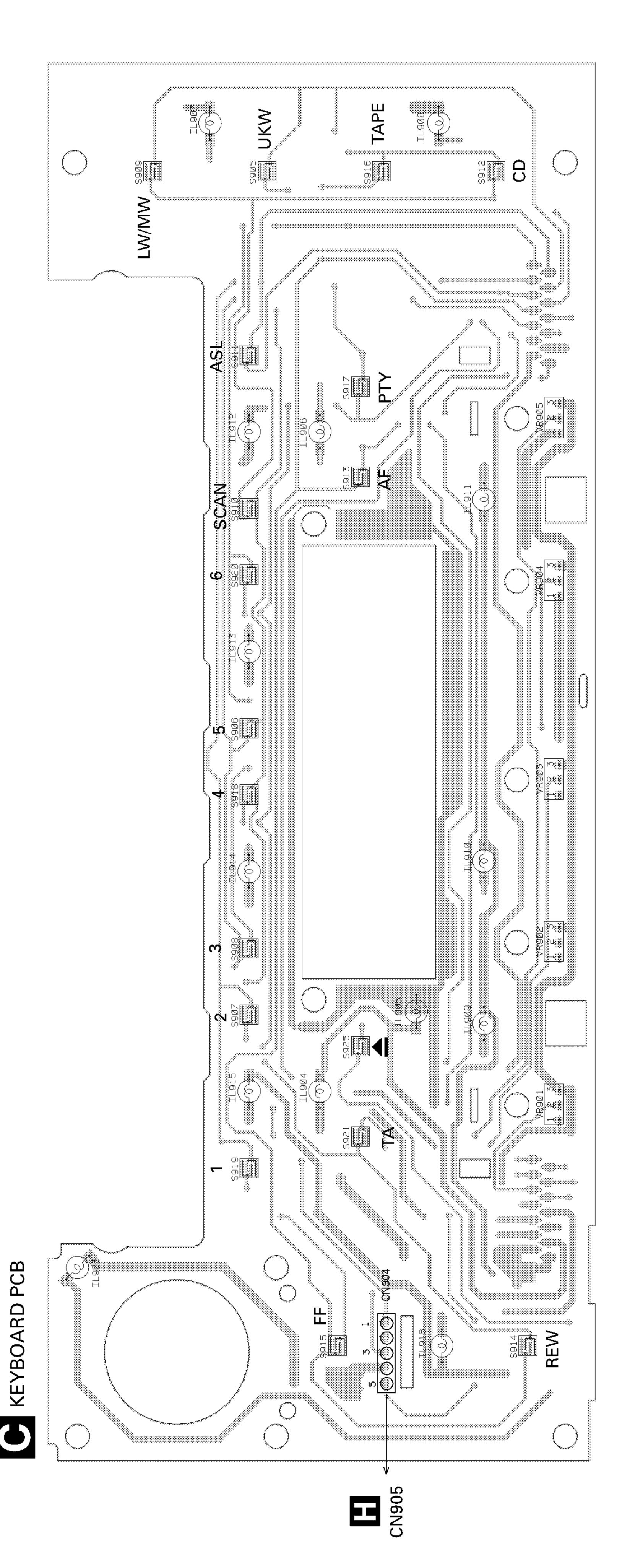




Fig. 20

SIDE B Fig. 21

4.5 CASSETTE MECHANISM MODULE

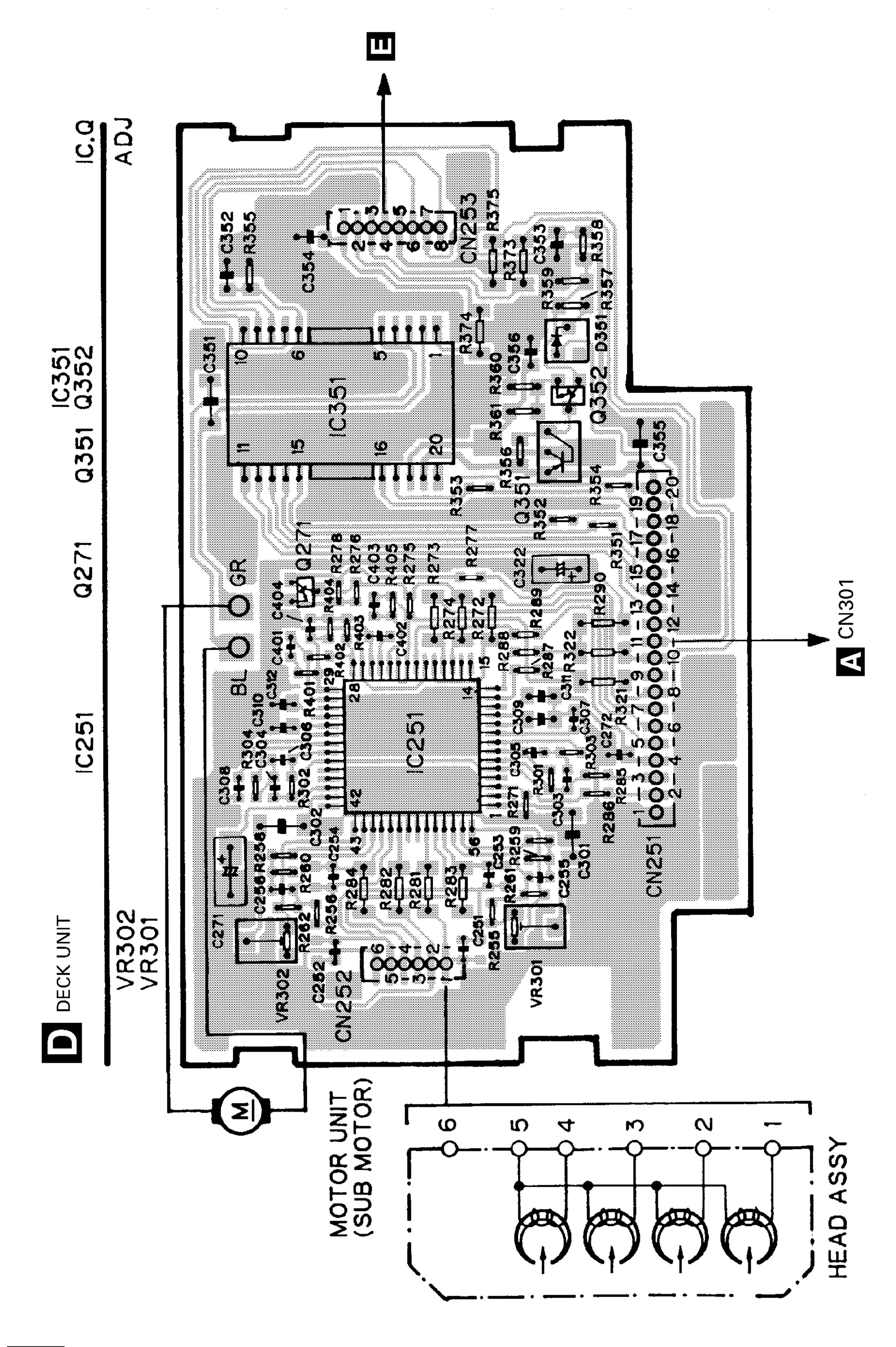
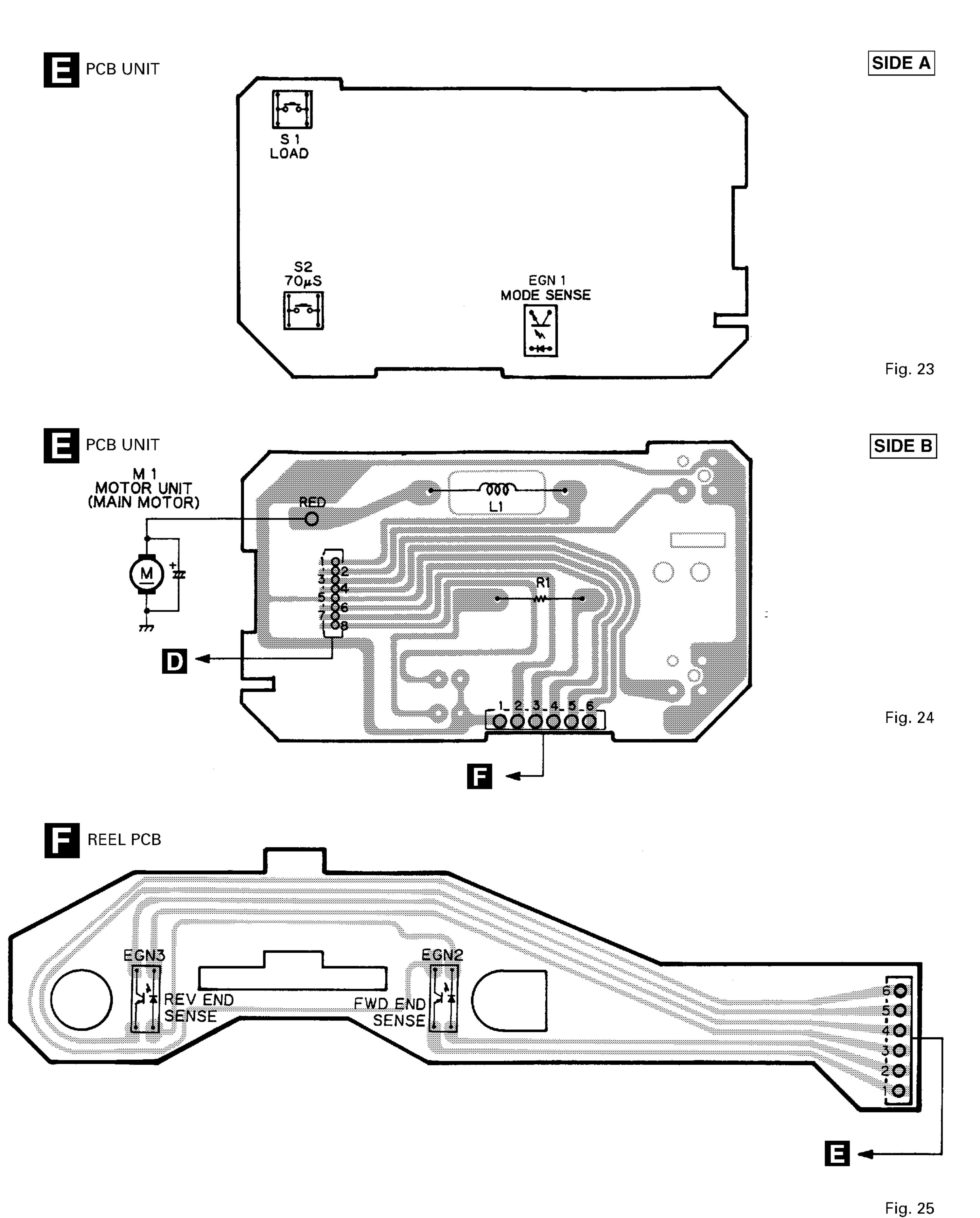


Fig. 22







4.6 LCD UNIT

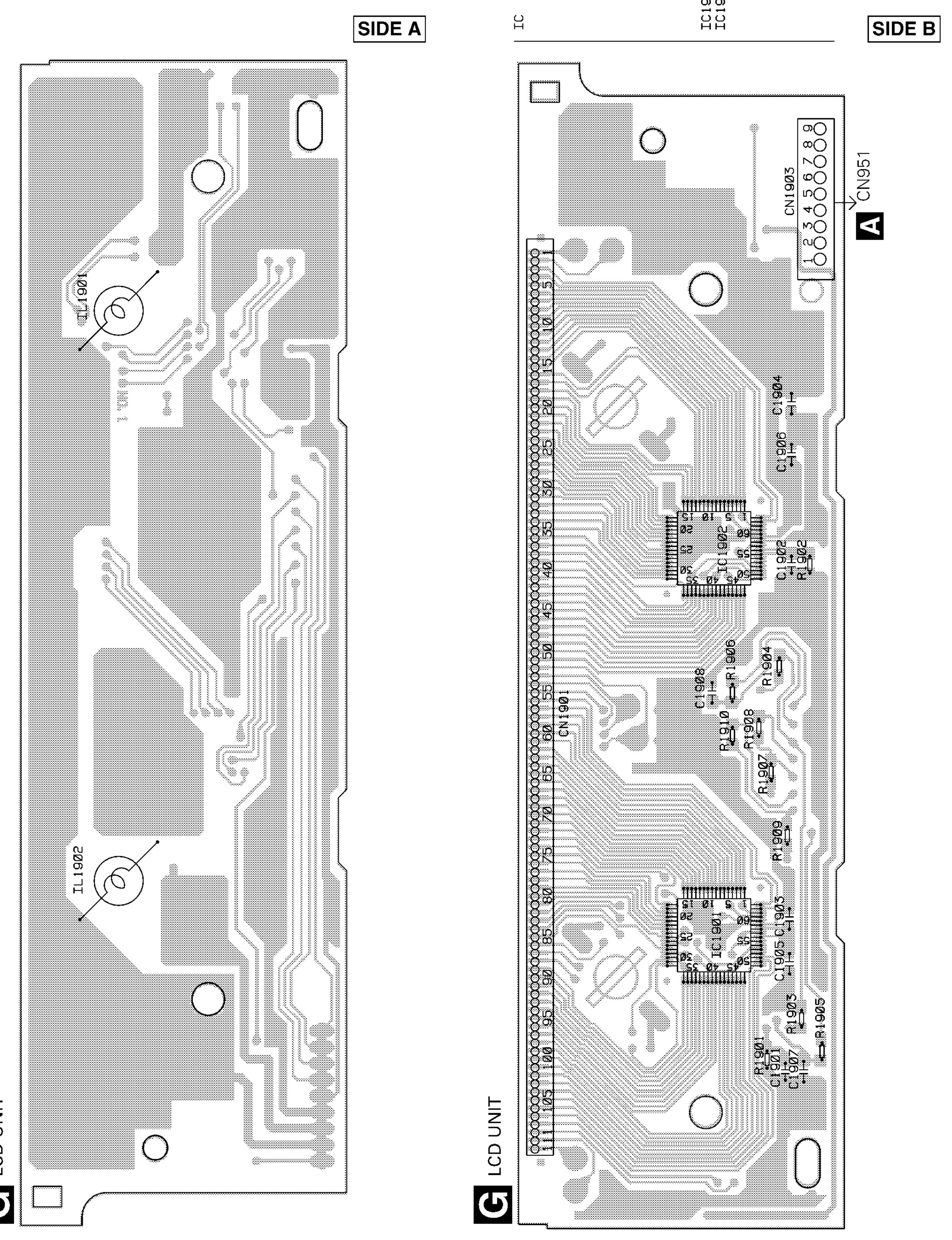


Fig. 26 Fig. 27



5. ELECTRICAL PARTS LIST

NOTE:

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- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOJ,RS1/OOSOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===	Part Name Part No.
Main Unit Consists of Mother PCB Tuner Control PCB		 Q 816 Transistor Q 817 Transistor Q 818 Transistor Q 819 Transistor Q 820 Transistor 	2SC2712 2SB942 2SB942 2SD1767 2SC2712
Unit Number : CWM4977(KEX-N : CWM5028(KEX-N Unit Name : Main Unit MISCELLANEOUS		 Q 821 Transistor Q 822 Transistor Q 825 Transistor Q 826 Transistor Q 827 Transistor 	2SB1132 2SA1162 2SB1132 2SA1162 2SB1132
IC 301 IC IC 302 IC IC 303 IC IC 304 Transistor IC 502 IC	NJM2068MD NJM2068MD MC74HC4066F IMD3A PM2007A	 Q 828 Transistor Q 829 Transistor Q 830 Transistor Q 831 Transistor Q 832 Transistor 	2SA1162 DTA114EK DTC143EK 2SB1132 2SA1162
IC 525 IC IC 601 IC IC 603 IC IC 605 IC IC 680 IC	HA12181FP PMW001B PD6217A NJM2903M TC7W66F	 Q 833 Transistor Q 834 Transistor Q 835 Transistor Q 836 Transistor Q 837 Transistor 	2SB1132 2SB1132 2SB1162 2SA1162 DTA114EK
IC 701 IC IC 702 IC IC 703 IC IC 704 IC IC 705 IC	PD4788B MB88306PF S-80736AN-D0 CA0008AM S-29220A	 Q 838 Transistor Q 951 Transistor Q 953 Transistor Q 954 Transistor Q 955 Transistor 	DTC123YK 2SC2712 2SC2712 2SC2712 2SA1255
IC 802 Transistor IC 803 Transistor Q 301 Transistor Q 302 Transistor Q 303 Transistor	IMD3A IMD3A DTC343TK DTC343TK DTC343TK	 Q 956 Transistor Q 957 Transistor Q 958 Transistor Q 959 Transistor Q 960 Transistor 	DTC144EK 2SA1255 DTC144EK 2SA1255 DTC144EK
 Q 304 Transistor Q 503 Transistor Q 525 Transistor Q 651 Transistor Q 680 Transistor 	DTC343TK 2SC2712 DTC143TK DTC143TK 2SC2712	Q 961 Transistor D 301 Diode D 302 Diode D 303 Diode D 304 Diode	DTC114EK UDZ20(B) UDZ20(B) UDZ20(B) UDZ20(B)
 Q 681 Transistor Q 682 Transistor Q 683 Transistor Q 684 Transistor Q 685 Transistor 	2SC2712 2SC2712 2SC2712 2SC2712 DTC143TK	D 305 Diode D 601 Diode D 652 Chip Diode D 680 Chip Diode D 681 Chip Diode	MA8043(H) MA8047(H) MA151WK MA151WK MA151WK
 Q 687 Transistor Q 688 Transistor Q 701 Transistor Q 801 Transistor Q 802 Transistor 	DTA114EK DTC114EK DTA114EK 2SB1185 IMX1	D 701 Diode D 702 Diode D 703 Diode D 704 Diode D 705 Diode	1SS355 1SS355 1SS355 1SS355
Q 805 Transistor Q 806 Transistor Q 807 Transistor Q 808 Transistor Q 809 Transistor	2SB1132 DTC114EK 2SB1132 DTC114EK 2SB1132	D 707 Diode(KEX-M9176ZT D 710 Diode D 711 Diode D 712 Diode	UDZ20(B) UDZ20(B) 1SS355
 Q 811 Transistor Q 812 Transistor Q 813 Transistor Q 814 Transistor Q 815 Transistor 	2SA1162 2SC3651 2SA1162 2SA1162	D 801 Diode D 802 Diode D 803 Diode D 804 Diode D 805 Diode	GP30ML 1SS355 MA8082(L) MA151WA UDZ5R6(B)

=====Ci	rcuit Symbol and No.===Part Name	Part No.	===	===Circuit Symbol and No.===Part Name	Part No.
D 807 D 808 D 809 D 810 D 811	Diode Diode Diode	MA8082(L) UDZ10(B) MA153 1SS355 ERA15-10VH	R R R R	535 538 544 549 550	RS1/10S105J RS1/10S0R0J RS1/10S473J RS1/10S151J RS1/16S821J
D 951 D 953 D 955 D 956	Diode Diode Diode	UDZ7R5(B) 1SS355 MA8075(H) UDZ7R5(B) 1SS355	R R R R	551 552 553 554 555	RS1/16S102J RS1/16S222J RS1/10S473J RS1/10S682J
D 957 L 550 L 598 L 599	Inductor Inductor Inductor	UDZ20(B) LCYA100K3225 LCYA100K3225 LCYA100K3225 LCYA100K3225	R R R R	556 557 558 559 560	RS1/10S472J RS1/10S222J RS1/10S102J RS1/10S682J RS1/10S472J
L 601 L 602 L 671 L 701 L 702	Coil I Inductor I Inductor	LCYA101K3225 LCYA100K3225 LCTA100K3225 LCTA100K3225	R R R R	561 562 563 564 565	RS1/10S561J RS1/10S103J RS1/10S152J RS1/10S332J RS1/10S392J
L 801 L 901 X 550 X 601 X 701	Inductor Crystal Resonator 7.200MHz Crystal Resonator 4.332MHz	CTH1069 LCTB2R2K2125 CSS1379 CSS1056 CSS1305	R R R R	566 567 568 569 579	RS1/10S392J RS1/10S272J RS1/10S222J RS1/16S182J RS1/10S562J
VR 530 VR 650 EF 801 AR 651	Semi-fixed 2.2kΩ(B) Tuner Unit I EMI Filter	CCP1181 CCP1177 CWE1456 CCG1006 DSP-201M	R R R R	588 599 600 601 602	RS1/10S102J RS1/10S684J RS1/10S222J RS1/10S222J RS1/10S562J
RESISTO R 301 R 305 R 306	1 2 5	RS1/10S103J RS1/10S103J RS1/10S561J RS1/10S561J	R R R R	603 605 608 609 610	RS1/10S333J RS1/10S0R0J RS1/10S473J RA4C102J RA4C681J
R 308 R 308 R 309 R 310 R 311	7 3 9	RS1/10S361J RS1/10S561J RS1/10S203J RS1/10S203J RS1/10S102J	R R R R	611 614 615 617 618	RS1/10S681J RS1/10S223J RS1/10S473J RS1/10S681J
R 312 R 314 R 316 R 316	<u>2</u> 3 4 5	RS1/10S102J RS1/10S273J RS1/10S273J RS1/10S222J RS1/10S222J	R R R R	619 620 621 622 623	RS1/10S681J RS1/10S473J RS1/10S681J RS1/10S105J RS1/10S102J
R 317 R 318 R 319 R 320 R 321	} }	RS1/10S222J RS1/10S222J RS1/10S510J RS1/10S510J RS1/10S510J	R R R R	624 625 626 627 629	RS1/10S473J RS1/10S681J RS1/10S681J RS1/10S681J
R 322 R 325 R 325 R 326	3 1 5 3	RS1/10S510J RS1/10S102J RS1/10S103J RS1/10S510J RS1/10S510J	R R R R	631 632 633 634 636	RS1/10S681J RS1/10S222J RS1/10S101J RS1/10S102J RS1/10S681J
R 327 R 328 R 329 R 502 R 508 R 520	3 2 3	RS1/10S510J RS1/10S510J RS1/10S102J RA4C681J RS1/10S222J RS1/10S104J	R R R R	637 638 639 640 641	RS1/10S681J RS1/10S473J RS1/10S472J RS1/10S681J RS1/10S102J
R 521 R 522 R 523 R 524 R 531	1 2 3	RS1/10S104J RS1/10S123J RS1/10S184J RS1/10S333J RS1/10S473J RS1/10S472J	R R R R	649 650 651 657	RS1/431313 RS1/10S272J RS1/10S0R0J RS1/10S222J

=====(Circuit Symbol and No.===Part Name	Part No.	===	==Circuit Symbol and No.===Part Name	Part No.
R 69 R 66 R 66	58 59 60 61 62	RS1/10S102J RS1/10S562J RS1/10S562J RS1/10S273J RS1/10S822J	R R R R	748 749 750 752 753	RS1/10S681J RS1/10S681J RS1/10S681J RS1/10S473J
R 66 R 67 R 67	64 68 72 73 78	RS1/10S473J RS1/10S824J RS1/10S224J RS1/10S233J	R R R R	754 755 756 757 758	RS1/10S102J RS1/10S104J RA3C102J RA4C473J RS1/10S473J
R 68 R 68 R 68	79 80 81 82 83	RS1/10S333J RS1/10S103J RS1/10S222J RS1/10S333J RS1/10S333J	R R R R	759 760 761 762 763	RS1/10S222J RS1/10S473J RS1/10S102J RS1/10S103J RS1/10S102J
R 68 R 68 R 68	84 85 88 89 90	RS1/10S222J RS1/10S222J RS1/10S102J RS1/10S102J RS1/10S102J	R R R R	764 765 766 767 768	RS1/10S102J RS1/10S473J RS1/4S101J RS1/4S101J RS1/4S680J
R 69 R 69 R 69	91 92 93 94 95	RS1/10S223J RS1/10S102J RS1/10S102J RS1/10S103J	R R R R	769 776 777 778 779	RA4C473J RS1/10S102J RS1/10S681J RS1/10S473J
R 69 R 69 R 69	96 97 98 99 02	RS1/10S393J RS1/10S102J RS1/10S0R0J RS1/10S221J RS1/10S102J	R R R R	780 782 783 785 790	RS1/10S102J RS1/10S102J RS1/10S102J RS1/10S473J
R 70 R 70 R 7	07 08 09 10 11	RA4C681J RA3C103J RS1/10S222J RS1/10S222J RS1/10S222J	R R R R	791 801 802 803 804	RS1/10S473J RS1/8S472J RS1/8S472J RS1/10S223J RS1/10S471J
R 7 R 7 R 7	12 13 14 15 16	RS1/10S102J RS1/10S102J RS1/10S473J RS1/10S102J	R R R R	805 806 807 808 809	RS1/10S331J RS1/10S103J RS1/10S471J RS1/10S152J RS1/10S4R7J
R 7 R 7 R 7	17 18 19 20 21	RS1/10S102J RS1/10S681J RS1/10S681J RS1/10S473J	R R R R	811 812 813 814 815	RS1/10S103J RS1/10S102J RS1/10S103J RS1/8S681J RS1/10S103J
R 72 R 72 R 72	22 23 24 25 26	RS1/10S681J RS1/10S473J RS1/10S222J RS1/10S102J RA4C102J	R R R R	816 817 818 819 820	RS1/10S681J RS1/8S4R7J RS1/10S153J RS1/10S474J RS1/10S471J
R 72 R 73 R 73	27 (KEX-M9176ZT/EW ONLY) 28 29 30 31	RS1/10S102J RA4C102J RA4C473J RA4C102J RA3C473J	R R R R	821 822 823 824 825	RS1/10S103J RS1/4S821J RS1/10S103J RS1/10S103J RS1/10S103J
R 73 R 73 R 73	32 33 34 35 37	RA4C102J RA3C473J RA3C102J RS1/10S681J RS1/10S102J	R R R R	826 827 828 829 830	RS1/10S123J RS1/10S103J RS1/10S103J RS1/4S2R2J
R 73 R 74	38 39 42 46 47	RS1/10S103J RA3C102J RS1/10S102J RS1/10S102J RS1/10S473J	R R R R	831 832 833 834 835	RS1/4S2R2J RS1/10S223J RS1/10S103J RS1/4S101J RS1/10S222J

===	==Circuit Symbol and No.===Part Name	Part No.	==:	===Circuit	t Symbol and No.===Part Name	Part No.
R R R R	836 837 838 839 840	RS1/10S223J RS1/10S2R2J RS1/10S471J RS1/10S103J RS1/10S102J	CCCC	311 312 313 314 315		CKSQYB682K50 CKSQYB682K50 CEJANP4R7M16 CEJANP4R7M16 CEJANP4R7M16
R R R R	841 842 843 844 845	RS1/10S153J RS1/10S2R2J RS1/10S471J RS1/10S103J RS1/10S102J	C	316 318 319 320 321		CEJANP4R7M16 CEJA470M16 CKSQYB103K50 CEJA101M10 CKSQYB224K16
R R R R	846 847 848 849 850	RS1/10S153J RS1/10S2R2J RS1/10S471J RS1/10S102J RS1/10S153J	CCCC	330 331 332 333 525		CCSQCH101J50 CCSQCH101J50 CCSQCH101J50 CEAS3R3M50
R R R R	851 852 853 854 855	RS1/10S2R2J RS1/10S471J RS1/10S103J RS1/10S102J RS1/10S153J	CCCC	526 527 528 529 530		CKSQYB333K50 CEJANP1R0M50 CQMA683J50 CQMA333J50 CQMA333J50
R R R R	856 857 858 859 860	RS1/10S2R2J RS1/10S471J RS1/10S102J RS1/10S153J RS1/10S3R3J	CCCC	531 532 533 534 535		CQMA333J50 CKSQYB682K50 CKSQYB472K50 CEJAR33M50 CKSQYB102K50
R R R R	861 862 863 864 865	RS1/10S101J RS1/10S102J RS1/4S2R2J RS1/4S2R2J RS1/4S101J	CCCC	549 550 551 552 553		CKSQYB223K50 CKSRYB103K50 CKSQYB102K50 CCSQCH101J50
R R R R	901 903 904 905 951	RS1/10S0R0J RS1/10S0R0J RA3C222J RS1/10S473J	CCCC	554 555 556 557 558		CKSQYB103K50 CKSQYB103K50 CEAS220M10 CKSQYB103K50 CEAS220M10
R R R R	952 955 956 958 959	RS1/10S104J RS1/8S222J RS1/10S223J RS1/10S223J RS1/10S104J	CCCC	561 563	4.7μF/16V 4.7μF/16V	CKSQYB103K50 CCH1165 CKSQYB103K50 CGCYX473K25 CCH1165
R R R R	960 961 962 963 964	RS1/8S222J RS1/8S472J RS1/4S221J RS1/4S221J RS1/4S221J	CCCC	566 567 568 569 570		CKSQYB103K50 CEASR47M50 CKSQYB103K50 CCSQCH150J50 CCSQCH150J50
R R R R	965 966 967 968 969	RS1/4S221J RS1/10S473J RS1/10S473J RS1/10S103J	CCCC	571 572 573 574 591		CKSQYB103K50 CEAS100M16 CEAS101M10 CKSQYB103K50 CKSQYB102K50
R R R R	970 971 972 973 974	RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J RS1/10S103J	CCCC	592 594 595 596 597		CKSQYB102K50 CKSQYB103K50 CKSQYB103K50 CEAS4R7M25 CKSQYB102K50
R	980	RS1/10S104J	C C	598 601		CKSQYB103K50 CEJANP1R0M50
CAI C	PACITORS 301	CEJANP2R2M35	C C C	603 605 606		CKSQYB222K50 CKSQYB104K50 CKSQYB104K50
Č C C	302 303	CEJANP2R2M35 CEJA2R2M50	C	607		CKSQYB472K50
C	304 305	CEJA2R2M50 CCSQCH680J50	C	611 612 613		CEAS4R7M25 CKSQYB102K50 CKSQYB104K50
CCCC	306 307 308 309 310	CCSQCH680J50 CKSQYB331K50 CKSQYB682K50 CKSQYB682K50	Č	614		CKSQYB102K50

====Circuit Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Name	Part No.
C 615	CEJANP4R7M16	C 807	CKSQYB103K50
C 616	CCSQCH270J50	C 809	CKSQYB103K50
C 617	CCSQCH270J50	C 810	CEJA1R0M50
C 618	CKSQYB152K50	C 811	CEJA1R0M50
C 620	CEAS100M16	C 812	CEJA220M16
C 621	CKSQYB103K50	C 813	CKSQYB103K50
C 622	CKSQYB102K50	C 814 100μF/16V	CCH1282
C 623	CKSQYB102K50	C 815	CCSQCH471J50
C 624	CEAS4R7M25	C 902	CKSQYB103K50
C 625	CKSQYB103K50	C 905	CKSQYB102K50
C 627	CKSQYB103K50	C 906	CKSQYB102K50
C 628	CEAS101M10	C 907	CKSQYB102K50
C 629	CKSQYB103K50	C 908	CKSQYB102K50
C 630	CEAS100M16	C 909	CKSQYB102K50
C 640	CKSQYB103K50	C 910	CEJAR47M50
C 642 C 643 C 644 C 649 C 650	CKSQYB102K50 CKSQYB103K50 CKSQYB223K50 CKSQYB223K50	C 911 C 951 C 952 C 953 C 954	CKSQYB103K50 CEJA1R0M50 CKSQYB473K50 CKSQYB103K50 CEJA1R0M50
C 663 C 664 C 665 C 666 C 668	CKSQYB103K50 CKSQYB333K50 CKSQYB223K50 CKSQYB103K50	C 955 C 956 C 957 C 958 C 959	CKSQYB103K50 CKSQYB103K50 CKSQYB102K50 CKSQYB102K50
C 670 C 675 C 676 C 678 C 679	CKSQYB103K50 CKSQYB103K50 CEAS100M16 CEAS1R0M50 CEAS1R0M50	Unit Number : CWE1456 Unit Name : Tuner Unit MISCELLANEOUS	
C 680	CKSQYB153K50	IC 1 IC IC 2 IC Q 1 Transistor Q 3 FET Q 31 Transistor	PA4026A
C 681	CKSQYB682K50		PA4024A
C 682	CEAS3R3M50		2SC2712
C 683	CEAS3R3M50		3SK263
C 684	CEAS3R3M50		2SC2712
C 685	CEAS3R3M50	 Q 151 Transistor Q 165 Transistor Q 201 Transistor Q 203 Transistor D 3 Diode 	DTC144EU
C 687	CEAS101M10		2SC4116
C 690	CKSQYB223K50		FC12
C 691	CKSQYB103K50		DTC124EU
C 702	CKSQYB103K50		1SV251
C 704	CKSQYB102K50	D 4 Diode	1SV250
C 705	CKSQYB103K50	D 5 Diode	KV1410-F1
C 706	CEJA100M16	D 6 Diode	MA157
C 707	CKSQYB104K50	D 7 Diode	KV1410-F1
C 708	CKSQYB473K50	D 8 Diode	KV1410-F1
C 709 C 710 C 711 C 712 C 713	CKSQYB221K50 CKSQYB103K50 CKSQYB102K50 CKSQYB102K50	D 201 Diode D 202 Diode D 231 Diode L 1 Inductor L 2 Coil	MA157 1SV251 SVC253 LCTBR12K2125 CTC1145
C 716 C 717 C 720 C 763 C 764	CKSYB102K50 CKSQYB102K50 CKSQYB102K50 CKSQYB102K50	L 3 Inductor L 4 Coil L 5 Coil L 40 Inductor L 51 Ferri-Inductor	LCTB4R7K2125 CTC1131 CTC1147 LCTBR15K1608 LAU150K
C 765	CKSQYB102K50	L 52 Coil	CTC1136
C 766	CKSQYB102K50	L 201 Ferri-Inductor	LAU4R7K
C 767	CKSQYB102K50	L 202 Ferri-Inductor	LAU330K
C 789	CKSQYB102K50	L 203 Inductor	CTF1371
C 801 2200µF/16V	CCH1001	L 208 Inductor	LAU390K
C 802	CKSQYB473K50	L 209 Ferri-Inductor L 210 Coil L 231 Inductor T 31 Coil TC 1 Capacitor	LAU680K
C 803	CCSQCH101K50		CTB1102
C 804	CKSQYB103K50		LAU3R3J
C 805 470µF/16V	CCH1183		CTE1116
C 806 0.1F/5.5V	CCL1023		CCL1038

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
CF 25 Ceramic Filter CF 51 Ceramic Filter CF 52 Ceramic Filter CF 53 Ceramic Filter CF 230 Crystal Filter	CTF1292 CTF1292 CTF1292 CTF1262	R 234 R 237 R 238 R 239 R 240	RS1/16S0R0J RS1/16S103J RS1/16S104J RS1/16S104J RS1/16S472J
CF 232 Ceramic Filter X 151 Resonator 918.5Hz X 231 Crystal Resonator 10.26MHz VR 101 Semi-fixed 15kΩ(B) VR 151 Semi-fixed 10kΩ(B)	CTF1348	R 241	RS1/16S202J
	CSS1365	R 243	RS1/16S123J
	CSS1111	R 244	RS1/16S103J
	CCP1230	R 245	RS1/16S0R0J
	CCP1229	R 246	RS1/16S0R0J
VR 154 Semi-fixed 150k Ω (B) VR 156 Semi-fixed 100k Ω (B)	CCP1236 CCP1234	R 247	RS1/10S153J
RESISTORS		CAPACITORS	CCCDCH330 IE0
R 3 R 4 R 5 R 6 R 7	RS1/16S223J	C 1	CCSRCH220J50
	RS1/16S101J	C 2	CKSRYB222K50
	RS1/16S151J	C 3	CCSRCH6R0D50
	RS1/16S101J	C 5	CKSRYB222K50
	RS1/10S331J	C 6	CKSQYB473K16
R 8	RS1/16S332J	C 7	CKSQYB473K16
R 9	RS1/16S473J	C 8	CKSQYB104K16
R 10	RS1/16S223J	C 9	CCSRCJ3R0C50
R 11	RS1/16S124J	C 10	CEJA1R0M50
R 12	RS1/16S474J	C 11	CCSRCH470J50
R 15	RS1/16S271J	C 12	CCSRCH820J50
R 16	RS1/16S104J	C 13	CKSRYB222K50
R 17	RS1/16S332J	C 14	CCSRCH4R0D50
R 18	RS1/16S332J	C 16	CCSRCH120J50
R 19	RS1/16S154J	C 17	CKSRYB222K50
R 27	RS1/16S0R0J	C 18	CKSRYB103K25
R 31	RS1/16S470J	C 19	CKSRYB222K50
R 32	RS1/16S912J	C 20	CKSRYB222K50
R 33	RS1/16S912J	C 21	CEJA100M16
R 34	RS1/16S331J	C 22	CCSRRH100D50
R 35	RS1/16S331J	C 23	CCSRRH150J50
R 39	RS1/16S0R0J	C 24	CCSRCH471J50
R 51	RS1/16S331J	C 30	CCSRRH201J50
R 55	RS1/16S102J	C 31	CKSRYB103K25
R 56	RS1/16S823J	C 32	CKSQYB473K16
R 61	RS1/16S392J	C 33	CCSRCK2R0C50
R 62	RS1/16S393J	C 35	CCSRCH220J50
R 103	RS1/16S333J	C 36	CCSRCH100D50
R 104	RS1/16S334J	C 41	CKSQYB104K16
R 105	RS1/16S683J	C 51	CKSRYB223K25
R 107	RS1/16S222J	C 52	CKSRYB103K25
R 152	RS1/16S393J	C 54	CCSRCH470J50
R 155	RS1/16S393J	C 55	CKSQYB223K25
R 157	RS1/10S203J	C 56	CKSQYB104K16
R 160	RS1/16S222J	C 57	CKSRYB472K50
R 161	RS1/16S563J	C 58	CEJA330M10
R 162	RS1/16S225J	C 59	CKSRYB103K25
R 163	RS1/16S222J	C 61	CCSRCH270J50
R 164	RS1/16S563J	C 62	CKSRYB103K25
R 165	RS1/16S102J	C 63	CEJAR15M50
R 202 R 203 R 204 R 205 R 206	RS1/16S1023 RS1/16S223J RS1/16S225J RS1/16S103J RS1/16S471J RS1/16S220J	C 65 C 101 C 102 C 103 C 104	CKSQYB104K16 CEJANP100M10 CKSRYB182K50 CKSQYB682K50 CEJA2R2M50
R 207	RS1/16S101J	C 105	CKSRYB103K25
R 208	RS1/16S102J	C 106	CCSRCH151J50
R 209	RS1/16S0R0J	C 107	CKSRYB103K25
R 214	RS1/16S563J	C 151	CKSRYB392K50
R 215	RS1/16S473J	C 152	CKSQYB104K16
R 217	RS1/16S393J	C 153	CEJA3R3M50
R 220	RS1/10S0R0J	C 154	CKSQYB104K16
R 231	RS1/16S242J	C 157	CEJA3R3M50
R 232	RS1/16S473J	C 158	CKSYB474K16
R 233	RS1/16S0R0J	C 159	CEJA220M6R3

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
C 160 C 161 C 162 C 163 C 165	CKSQYB104K16 CKSQYB104K16 CEJA3R3M50 CKSRYB102K50 CCSRCH100D50	R 278 R 281 R 282 R 283 R 284	RS1/16S104J RS1/8S0R0J RS1/8S0R0J RS1/8S0R0J RS1/8S0R0J
C 201 C 202 C 203 C 204 C 205	CKSRYB103K25 CCSRCH100D50 CKSRYB332K50 CKSQYB473K16 CKSQYB473K16	R 285 R 286 R 288 R 289 R 322	RS1/16S0R0J RS1/16S0R0J RS1/16S0R0J RS1/8S223J
C 206 C 207 C 211 C 212 C 213	CKSQYB103K25 CCSRCH120J50 CCSRCH560J50 CEJA101M10 CKSRYB103K25	R 351 R 352 R 353 R 354 R 355	RS1/16S102J RS1/16S102J RS1/16S102J RS1/16S274J
C 215 C 216 C 217 C 219 C 220	CCSRCH680J50 CCSRCH101J50 CEJAR47M50 CKSRYB223K25 CKSRYB103K25	R 356 R 357 R 358 R 359 R 360	RS1/10S202J RS1/10S472J RS1/10S103J RS1/10S103J RS1/10S102J
C 221 C 230 C 231 C 232 C 233	CKSRYB103K25 CKSQYB104K16 CCSRCH330J50 CCSRCH150J50 CKSRYB103K25	R 361 R 373 R 374 R 375 R 401	RS1/10S622J RS1/8S0R0J RS1/8S0R0J RS1/8S0R0J RS1/16S273J
C 234 C 235 C 236 C 237 C 239	CEJA330M10 CKSRYB332K50 CKSQYB473K16 CCSRTH180J50 CKSRYB103K25	R 402 R 403 R 404 R 405	RS1/16S223J RS1/16S274J RS1/16S823J RS1/16S274J
C 240 C 241 C 242 C 243 C 244	CKSYB104K16 CKSQYB104K16 CEJAR47M50 CEJAR33M50 CKSQYB473K16	CAPACITORS C 251 C 252 C 253 C 254 C 255	CKSRYB391K50 CKSRYB391K50 CKSRYB391K50 CKSRYB391K50 CKSRYB103K25
C 247 C 250 Unit Number: EWM1007 Unit Name: Deck Unit	CKSQYB103K25 CKSQYB473K16 CCSRCJ3R0C50	C 256 C 271 C 272 C 301 C 302	CKSRYB103K25 CEV1R0M50 CKSQYB104K16 CKSYB474K16 CKSYB474K16
MISCELLANEOUS		C 309	CKSQYB104K16 CKSQYB104K16
IC 251 IC IC 351 IC Q 271 Transistor Q 351 Transistor	HA12163 PA2020A 2SC4116 2SB1260	C 310 C 351 C 352 C 353	CKSYB224K25 CKSQYB392K50 CKSQYB103K50
 Q 352 Transistor D 351 Diode VR 301 Semi-fixed 33kΩ(B) VR 302 Semi-fixed 33kΩ(B) 	2SC4102 MA141K CCP1130 CCP1130	C 354 C 355 C 356 C 401 C 402	CKSQYB103K50 CKSQYB103K50 CKSQYB182K50 CKSRYB822K50
RESISTORS		C 403 C 404	CKSRYB333K16 CKSRYB471K50
R 255 R 256 R 257 R 258 R 259	RS1/16S181J RS1/16S183J RS1/16S183J RS1/16S133J	Unit Number: CWM5076(KEX-M9176ZT) : CWM5077(KEX-M9076ZT) Unit Name : LCD Unit	
R 260 R 261 R 262 R 271 R 272	RS1/16S133J RS1/16S274J RS1/16S274J RS1/16S183J RS1/8S223J	MISCELLANEOUS IC 1901 IC IC 1902 IC IL 1901 Lamp 8V 100mA IL 1902 Lamp 8V 100mA	LC75821W LC75821W CEL1342 CEL1342
R 273 R 274 R 275 R 276 R 277	RS1/8S223J RS1/8S103J RS1/16S473J RS1/16S104J RS1/16S224J	LCD(KEX-M9176ZT/EW) LCD(KEX-M9076ZT/EW)	CAW1402 CAW1401

====Circuit Symbol and No.===Part Name	Part No.
RESISTORS	
R 1901 R 1902 R 1903 R 1904 R 1905	RS1/10S473J RS1/10S473J RS1/10S102J RS1/10S102J RS1/10S102J
R 1906 R 1907 R 1908 R 1909 R 1910	RS1/10S102J RS1/10S102J RS1/10S102J RS1/10S102J RS1/10S102J
CAPACITORS	
C 1901 C 1902 C 1903 C 1904 C 1905	CCSQCH681J50 CCSQCH681J50 CKSQYB103K25 CKSQYB103K25 CKSQYB473K25
C 1906 C 1907 C 1908	CKSQYB473K25 CKSQYB102K50 CKSQYB102K50
Keyboard Unit	
Consists of Keyboard PCB Volume PCB	

=====(Circu	it Symbol and No.===Part Name	Part No.
		Number : Name : PCB Unit	
L S S EGN R	1 1 2 1	Inductor Switch(Load) Switch(70 µS) Photo-Interruptor	ETH0001 ESG1004 ESG1004 EGN1005 RD1/4HM181J
		Number : Name : Reel PCB	
EGN EGN	2	Photo-Interruptor Photo-Interruptor	EGN1004 EGN1004
Miscell	laneo	ous Parts List	
M M HD C	1 2 1 1	Motor Unit(Main) Motor Unit(Sub) Head Assy	EXA1497 EXA1485 EXA1481 CEA4R7M35LS2



Unit Number: CWM4984(KEX-M9176ZT/EW)
Unit Number: CWM4983(KEX-M9076ZT/EW)
Unit Name: Keyboard Unit

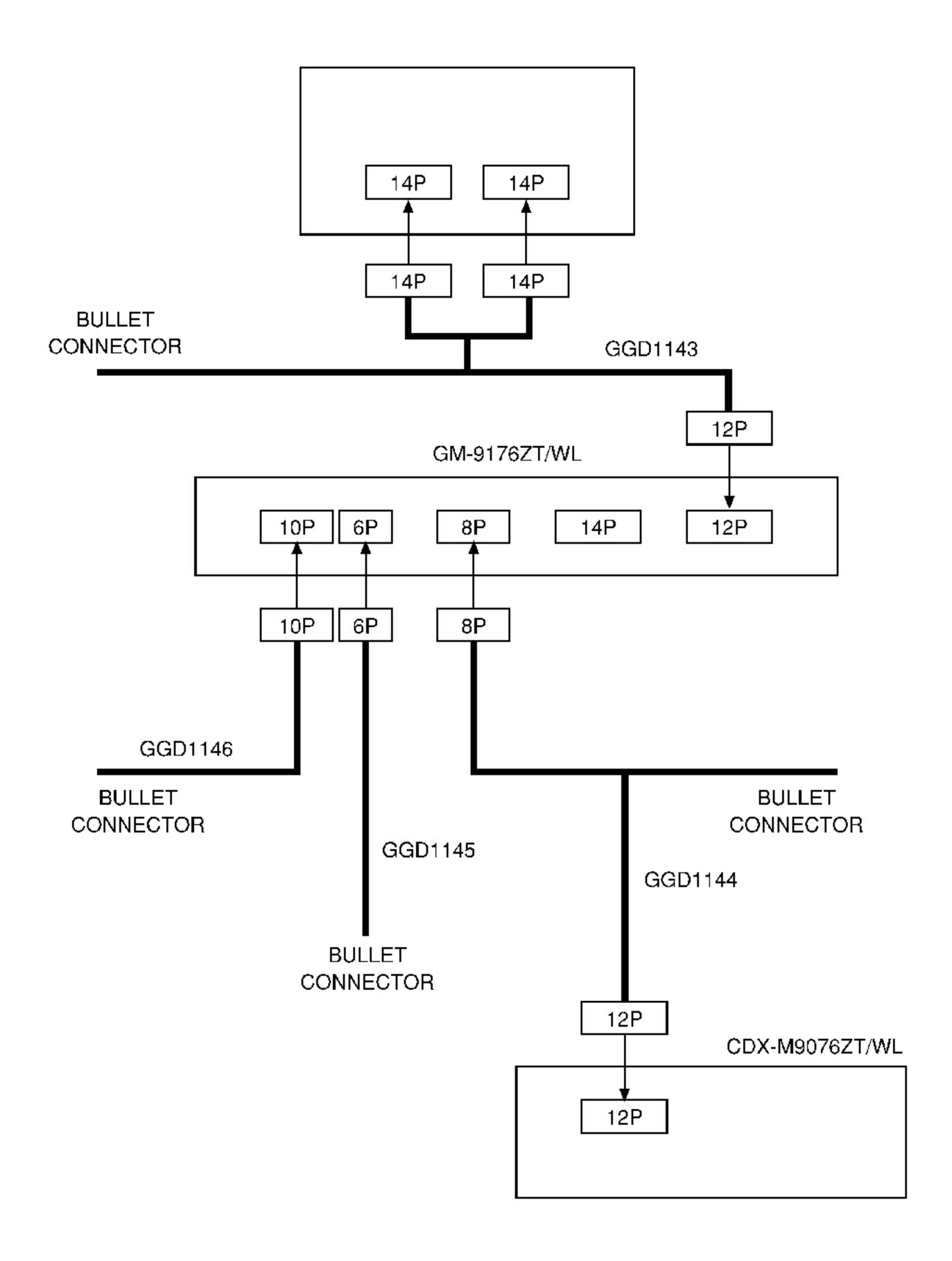
MISCELLANEOUS

S IL IL IL IL	901 903 904 905 906	Volume 50kΩ(B) Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA	CCS1106 CEL1343 CEL1343 CEL1343
IL IL IL IL	907 908 909 910 911	Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA	CEL1343 CEL1343 CEL1343 CEL1343
IL IL IL IL	912 913 914 915 916	Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA Lamp 8V 60mA	CEL1343 CEL1343 CEL1343 CEL1395
VR VR VR VR	901 902 903 904 905	Volume $50k\Omega(B)$ Volume $50k\Omega(B)$ Volume $50k\Omega(B)$ Volume $50k\Omega(B)$ Volume $50k\Omega(B)$ Volume $50k\Omega(B)$	CCS1224 CCS1224 CCS1224 CCS1224 CCS1224

6. ADJUSTMENT

- Audio System Diagram
- KEX-M9176ZT/EW

KEX-M9176ZT/EW



● KEX-M9076ZT/EW

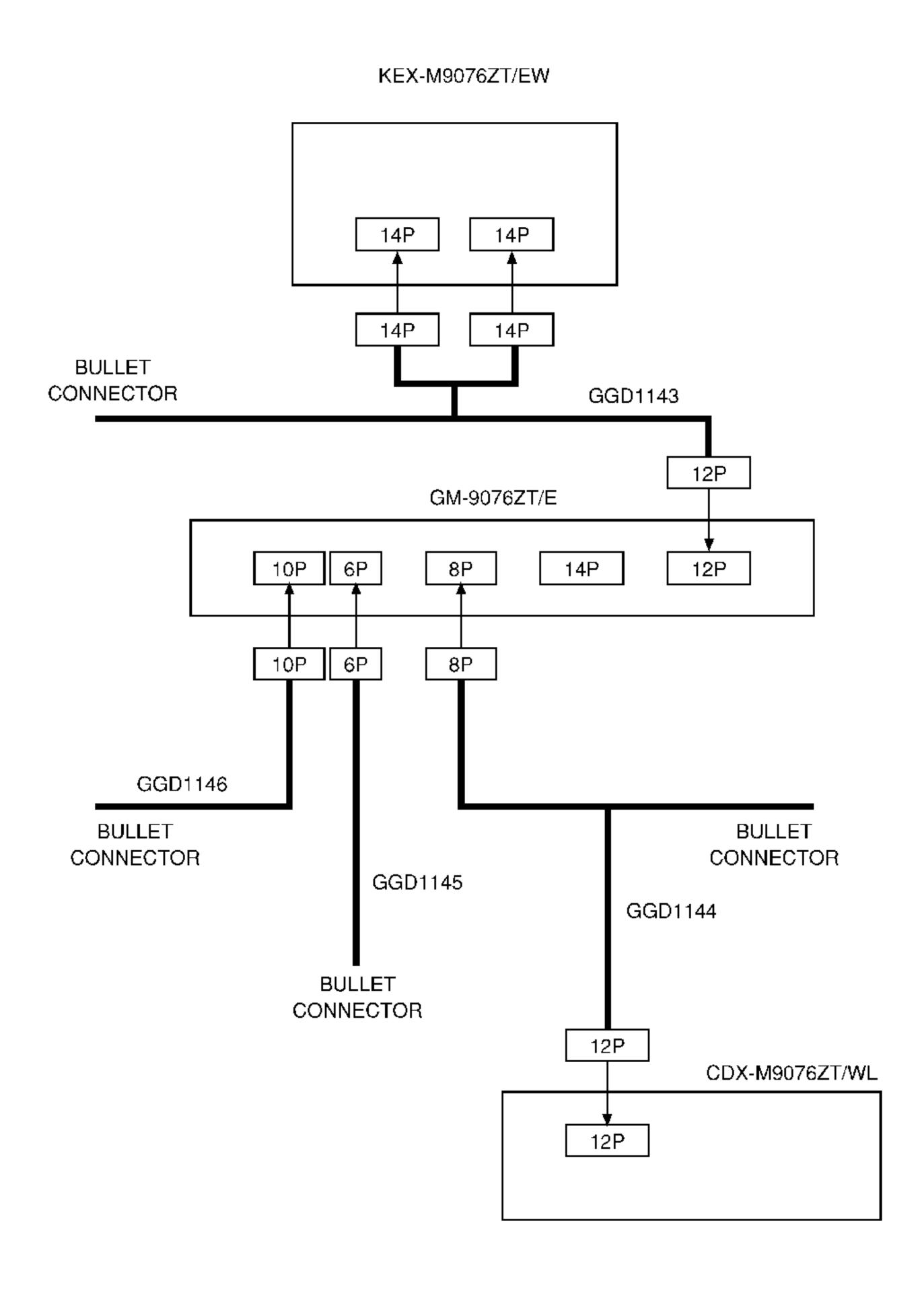
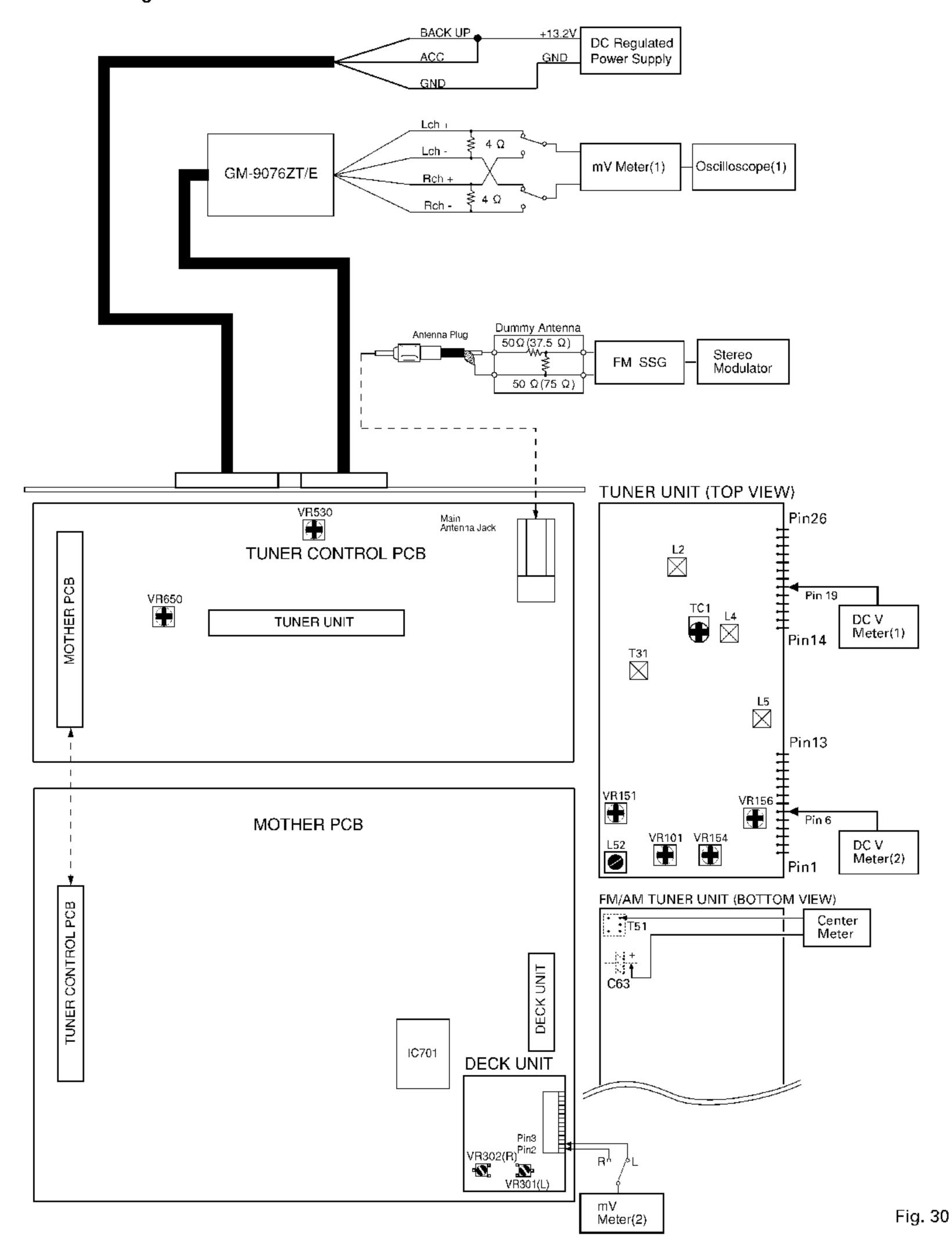


Fig. 29

6.1 TUNER/AUDIO ADJUSTMENT

Connection Diagram



FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)

S1:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

S2:STEREO MOD., 1kHz, L or R=54%(40.5kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM S	SG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	****	••••	108.0	L5	DC V Meter(1): 6V
Center	1	98.1 M	5-15	98.1	L52	Center Meter : 0
Meter						
IFT	1	98.1 M	5-15	98.1	T31	mV Meter(1) : Maximum
ANT Coil	1	87.5 M	5-15	87.5	L2	mV Meter(1) : Maximum
RF Coil	1	87.5 M	5-15	87.5	L4	mV Meter(1) : Maximum
RF	1	107.9 M	60-80	107.9	TC1	mV Meter(1) : Maximum
Trimmer						
Separation	1	98.1 S	65	98.1	VR101	mV Meter(1) : Maximum
ARC	1	82.0 S	40	82.0	VR154	mV Meter(1) : Separation 5dB
Separation						
Inter station	1	98.1 M	65	98.1		mV Meter : A dB
Noise	2	98.1 M		98.1	VR151	mV Meter : A-20 dB
Search	1	98.1 M	27	98.1	VR156	DC V Meter(2) : more than 3.5V
Sensitivity	2	98.1 M	26	98.1	VR156	DC V Meter(2): 0V
•	3	Repeat steps 1	Repeat steps 1 and 2 until the adjustment standards are satisfied.			

DOLBY B NR ADJUSTMENT

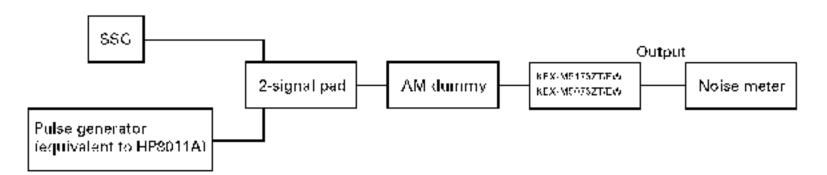
No.	Test Tape	Adjustment Point	Adjustment Method
			(Switch Position)
1	NCT-150	VR301(Lch), VR302(Rch)	mV Meter(2) : -8.24dBs±1.0dB
	(400Hz,200nwb/m)		(DOLBY NR Switch : OFF)

RDS SL ADJUSTMENT

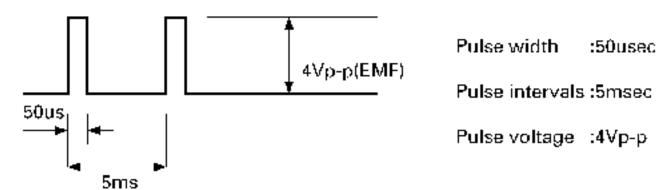
		FM S	SG	Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz) Level(dBf)		Frequency(MHz)	Point	(Switch Position)
	1	104.0 S2	35	104.0	VR650	DC V Meter(2): 1.75V±0.05V

AM NOISE CANCELER ADJUSTMENT

Connection:



Setting of the pulse generator (setting of superimposed pulse)



Adjustment:

1. Setting of SSG

Receiving frequency : 999 kHz
Percentage modulation : 30%
Modulation frequency : 400 Hz

Antenna input : 74 dBuV (EMF)

- 2. Set the system as shown in 1., then tune to a radio station.
- 3. Superimpose the pulse over signal to set modulation of SSG to OFF.
- 4. Use a noise meter to monitor output. Adjust VR530 to minimize the noise level.

6.2 SERVICE MODE

- Entering the mode Apply 5V to TEST Terminal(pin27) of system microcomputer IC701, and ACC ON, then restart.
- Terminating the mode Set ACC (accessories) to OFF.

6.3 MOTOR ANTENNA CONTROL

Outline

This section specifies the output logic and timing of control signal of the motor antenna (expandable type or 3-stage-variable type).

Specifications

① Functions of control terminal

ANTB : If this terminal is ON, power will be

supplied to the following terminals.

ANT0,1: Antenna length is set in 2 bits (3-stage-

variable type only).

② Logic

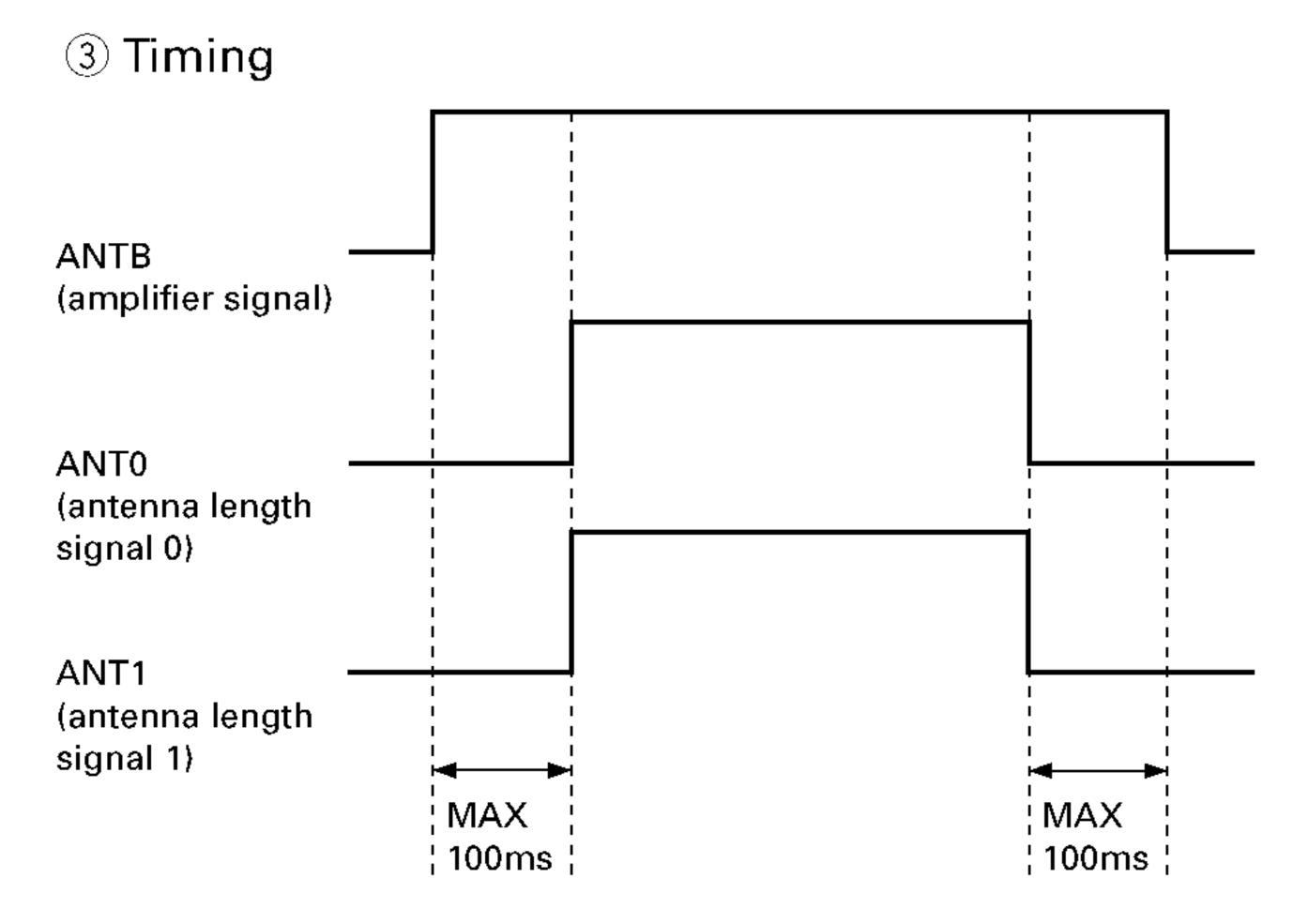
Antenna status

	FM Low	FM Hi	AM(MW)	O FF	TEST MODE
	87.5 ∼96M Hz	96.1~108MHz	LW	TAPE	DSS(AM&CD)
	SCAN of FM	SCAN of FM	sw	CD	Press two
	Low start	Hi start			buttons to set
					ACC to ON
ANT(+B)	1	1	1	0(※)	1
ANT A	1	0	1	0(※)	0
ANT B	0	0	1	0(※)	1
ANT length	Mid	Low	Hi	Off	Low

※ Conforms to FM Test mode and CD operation.

1:13.2 V output 0:0V

- 1)The logic shown in the table is for a motor antenna installed on the vehicle harness.
- 2)See "Toyota Standard Specifications" for entering and operating Service mode.



- 1)The time required for changes in each terminal shall be within 100 ms from the first terminal changed.
- 2)The timing in the figure above is based on measurement made on the vehicle harness.
- 3)The timing in the figure above is also applied to controlling the expandable-type motor antennas (without ANTO and 1 terminals).
- 4 Antenna length according to receiving frequency

Band	Frequency range	Antenna length
AM		Long
FM	87.5 – 95.9 (MHz)	Medium
	96.1 – 108.0 (MHz)	Short

1)The system maintains the antenna length set at starting during SEEK, SCAN SEARCH and SCAN SHORT TIME HOLD.

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Precautions

- ① Service mode is an "antenna exchange mode" and only available with the 3-stage-variable type. In Service mode, the antenna length will be longer than that in AM mode.
- ② With models using both Security and Service modes, if an action to enter Service mode is made while the system is waiting for Security code to be input, the system invalidates that action and waits for input of Security code. Then, the system will not enter Service mode after Security code is input and accepted.
- ③ Switching sound sources is inhibited in Service mode.
- 4 The last source after canceling Service mode will be set as the last band of tuner.

6.4 SERVICE MODE FOR DSP AMPLIFIER

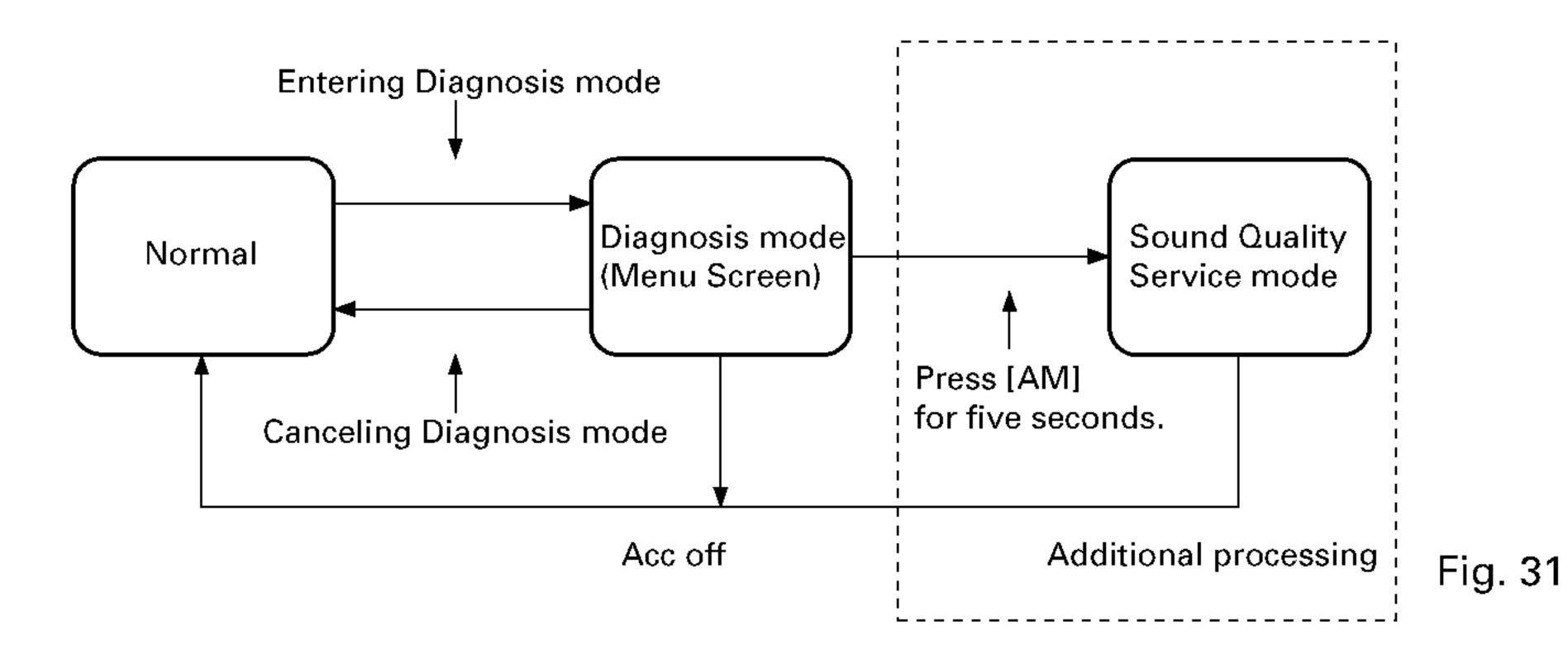
1. Outline

This specifications details operation according to our suggestion for answering complaint about sound quality in audio systems. It is based on an assumption that a dealer or service person operate the product to solve the problem.

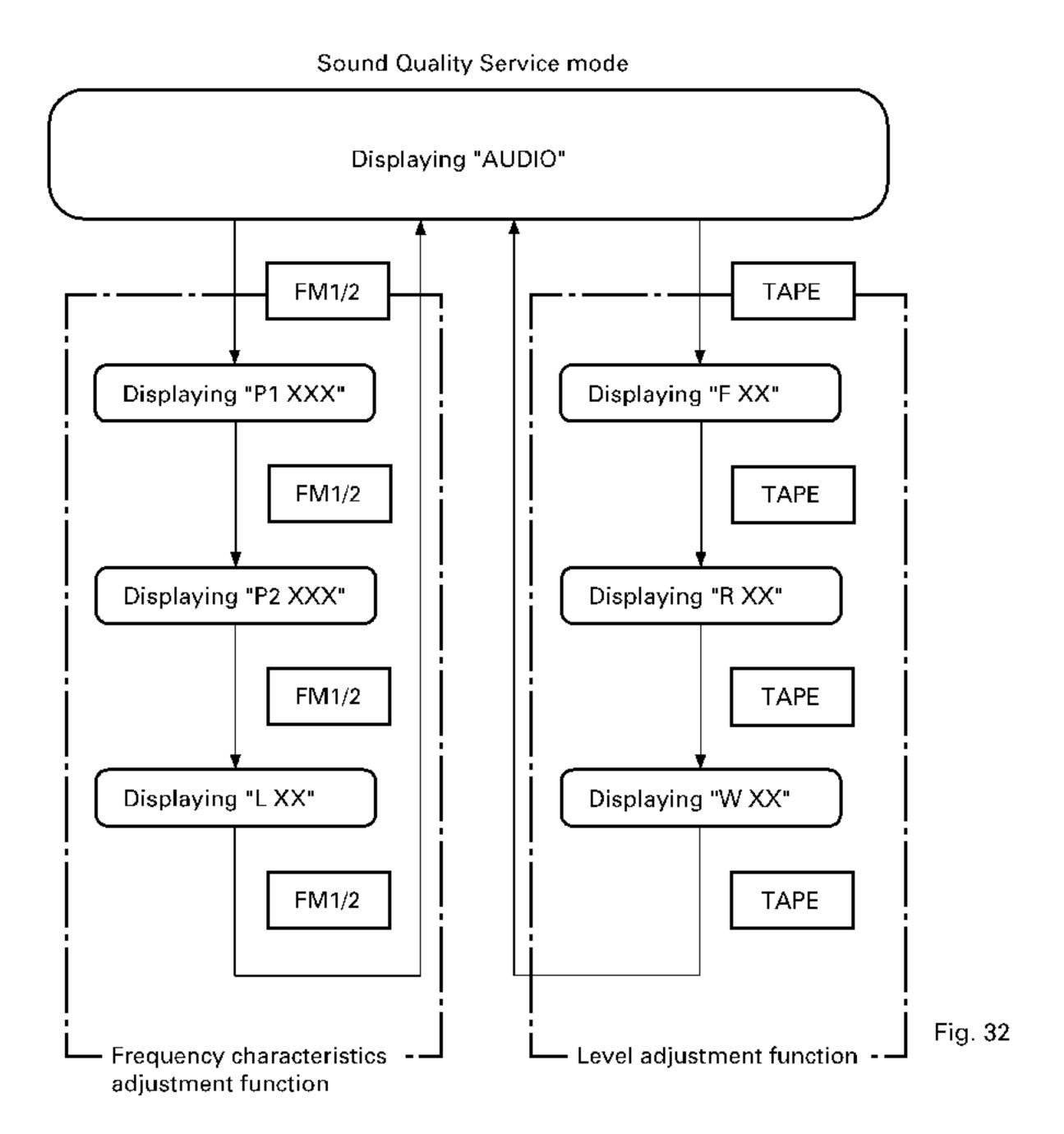
- 2. Sound Quality Service Mode Function
 Sound Quality Service mode has the following functions:
 - 1 Frequency characteristics adjustment: Specifies two points (frequency/dB value) of equalizer (EQ) to adjust frequency characteristics. Also adjusts attenuation.
 - 2 Level adjustment: Adjusts sound levels of the front and rear speakers and woofer.
- 3. Activating Sound Quality Service Mode
 Use the following steps to activate Sound Quality
 Service mode.
 - ① Confirm that ACC is ON, then activate Diagnosis mode.
 - (Operate according to the method of activation of Diagnosis mode specified for the system.)
 - 2 Press the [AM] button of H/U in the MENU screen in Diagnosis mode.

The system enters Sound Quality mode. Then, the system beeps one time and displays "AUDIO." You cannot return to Diagnosis mode by pressing a button from Sound Quality Service mode.

4. Canceling Sound Quality Service mode
Setting ACC to OFF cancels Sound Quality Service
mode. After that, the system will maintain sound
quality set in Sound Quality Service mode.



Flowchart of activation/cancellation of Sound Quality Service mode



Flowchart of displays in Sound Quality Adjustment mode

5. Details

- 1) Frequency characteristics adjustment function
 - The system changes submodes cyclically every time the [FM1/2] button is pressed when "AUDIO" is displayed.

Set EQ Point 1 \rightarrow Set EQ Point 2 \rightarrow Set attenuation \rightarrow "AUDIO"

Set EQ Point 1

The system displays "P1" and EQ management number. The EQ management number ascends/descends every time the UP/DOWN button is pressed. The EQ management number consists of three digits (000 to 286). Initial value is 000 (no setting).

Set EQ Point 2

The system displays "P2" and EQ management number. The EQ management number ascends/descends every time the UP/DOWN button is pressed. The EQ management number consists of three disits (000 to 176). Initial value is 000 (no setting).

Set attenuation

The system displays "L" and attenuation value. Use the UP/DOWN button to change attrnuation within a range from 0 to -20 dB at increments of 1 dB. Attenuation value is shown in two digits from 00 to 20 (20 = -20 dB). Initial value is 00 (no setting).

- 2 level adjustment function
 - The system changes submodes cyclically every time the [TAPE] button is pressed when "AUDIO" is displayed.

Set front → Set rear → Set woofer → "AUDIO"

Set front

The system displays "F" and level value. Use the UP/DOWN button to change level value within a range from 0 to -80 dB at increments of 1 dB. Level value is shown in two digits from 00 to 80 (80 = -80 dB). Initial value is 00 (no setting).

Set rear

The system displays "R" and level value. Use the UP/DOWN button to change level value within a range from 0 to -80 dB at increments of 1 dB. Level value is shown in two digits from 00 to 80 (80 = -80 dB). Initial value is 00 (no setting).

Set woofer

The system displays "W" and level value. Use the UP/DOWN button to change level value within a range from 0 to -80 dB at increments of 1 dB. Level value is shown in two digits from 00 to 80 (80 = -80 dB). Initial value is 00 (no setting).

Notes:

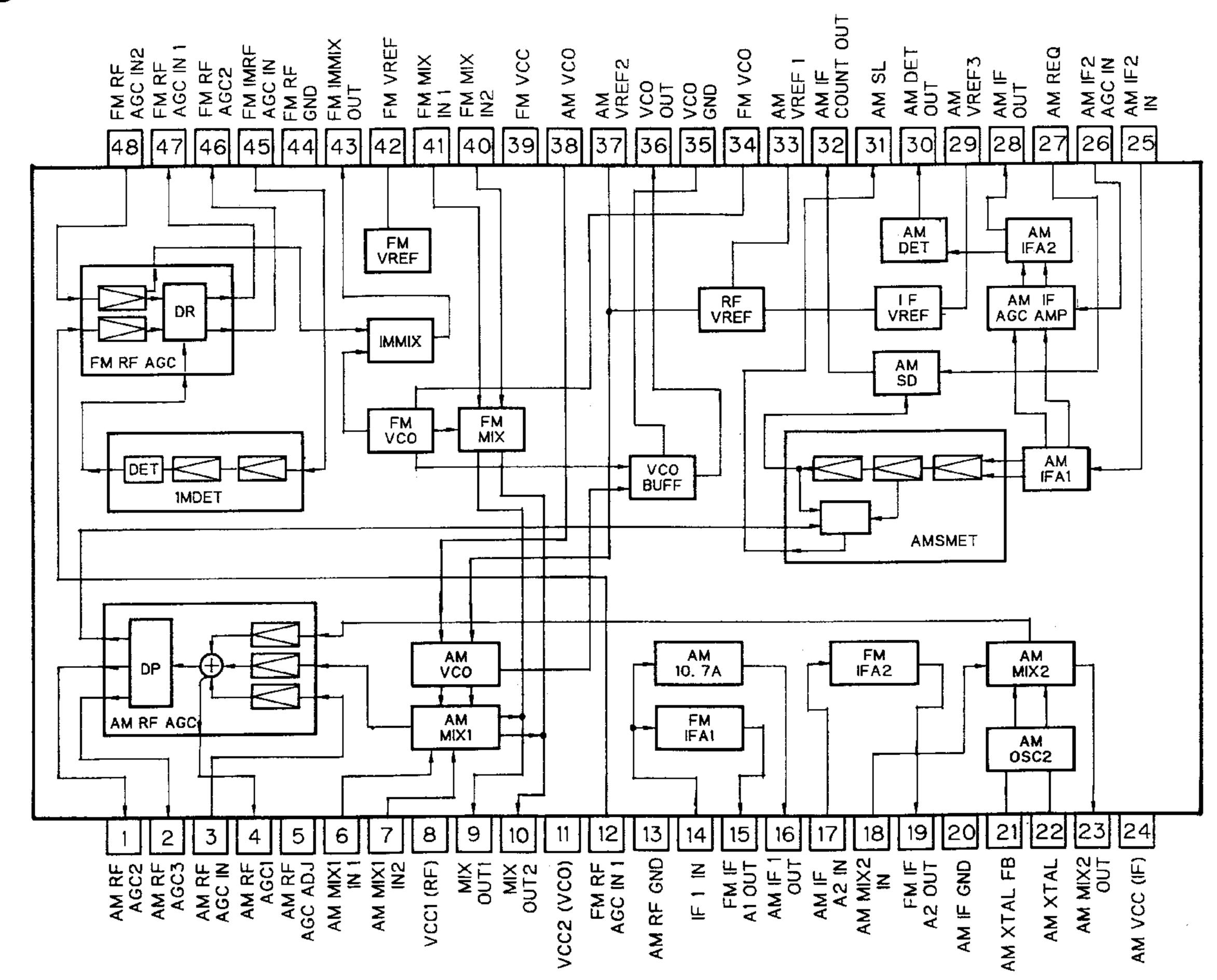
- 1) Pressing the TAPE button during adjustment of frequency characteristics is invalid. Pressing the [FM1/2] button during level adjustment is invalid.
- 2) The UP/DOWN button mentiond above means the [SEEK](\land , \lor) key.

7. GENERAL INFORMATION

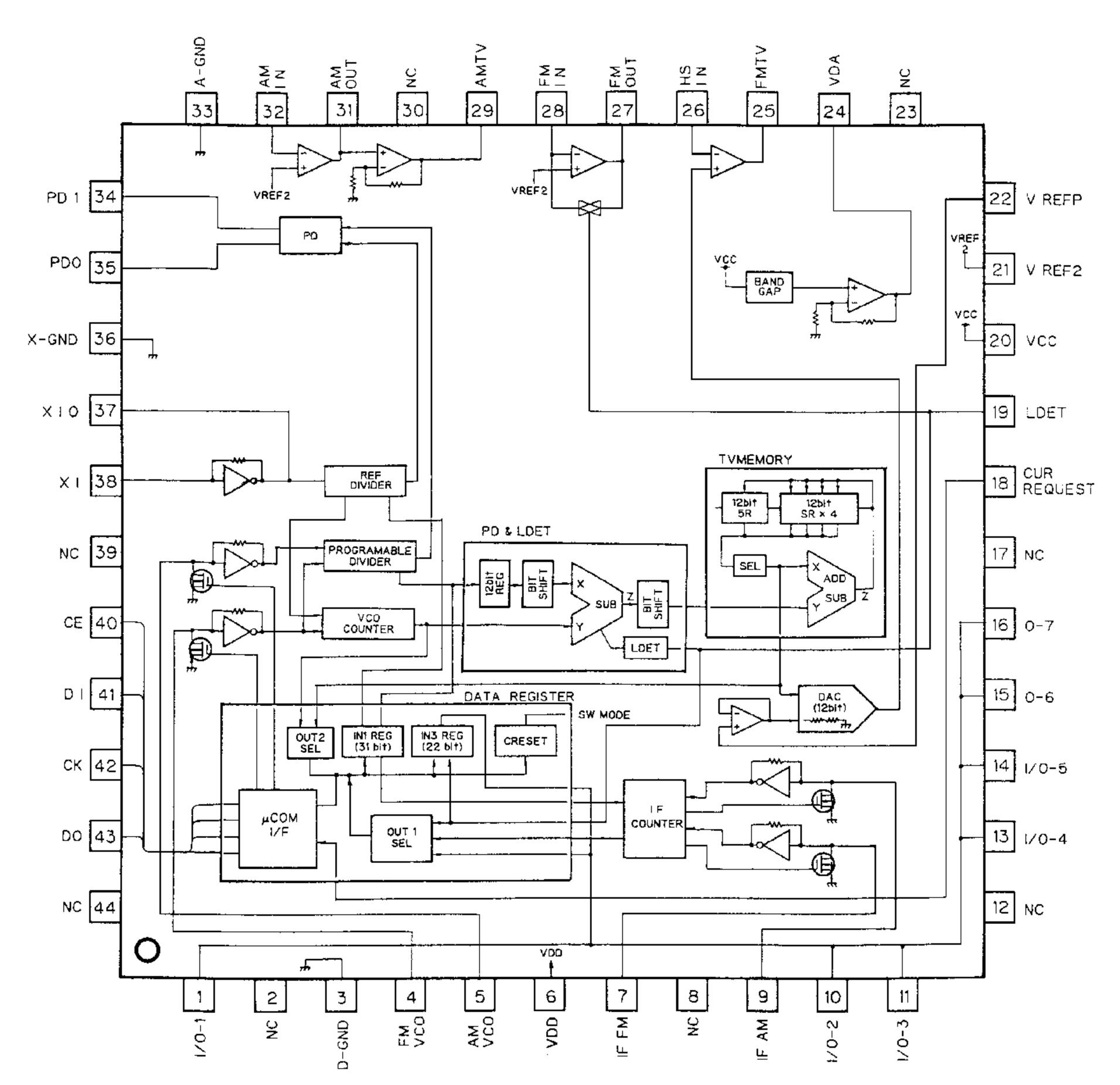
7.1 PARTS

7.1.1 IC

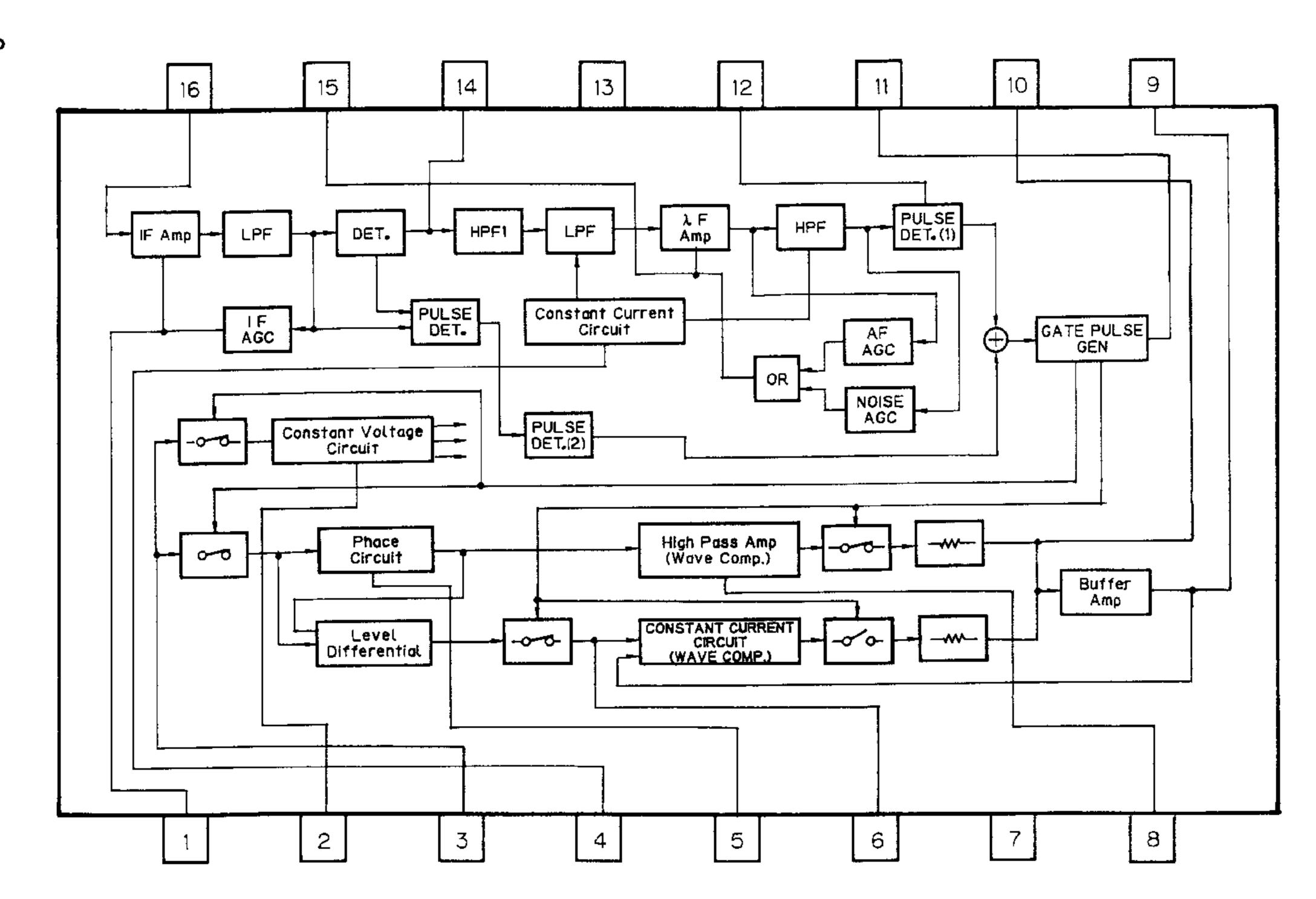
PA4026A



PM2007A



HA12181FP

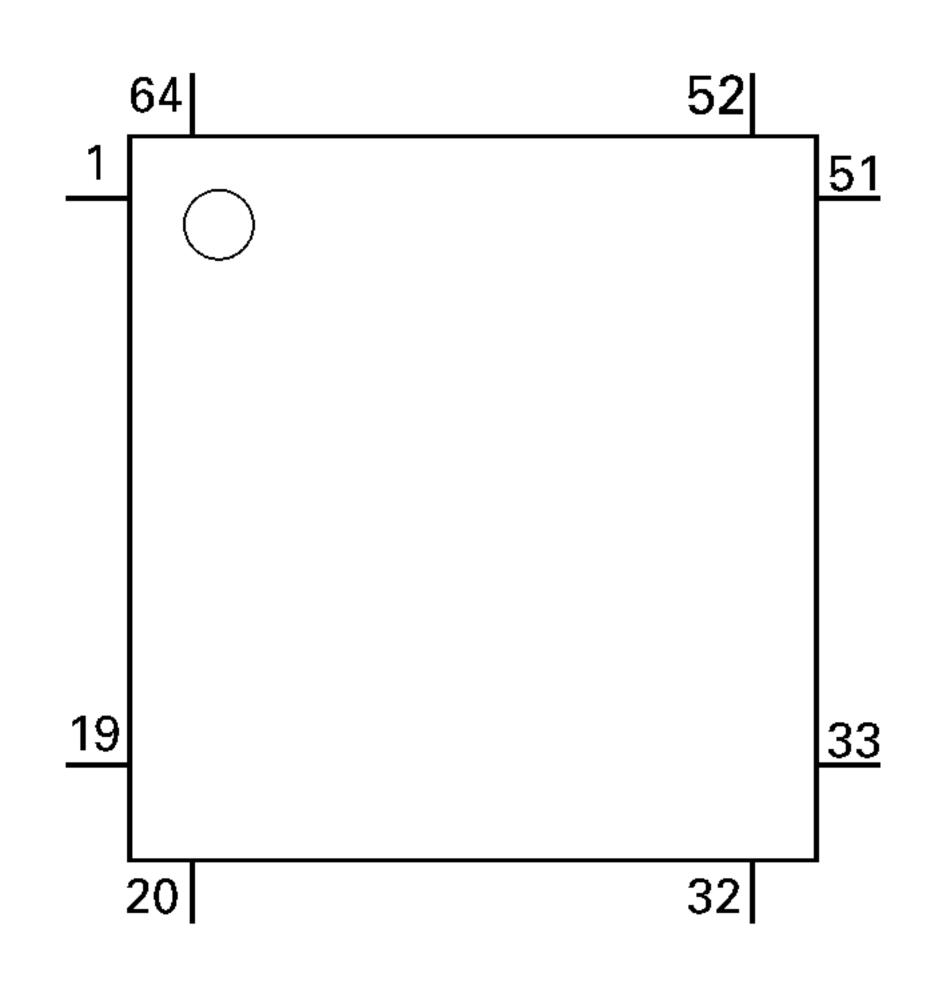


Pin Functions (PD6217A)

Pin Functi	ons (PD6217A)								
Pin No.	Pin Name	I/O	Format	Function and Operation					
1	PCK	0	N	PLL communications clock output					
2	PDO	0	N	PLL communications data output					
3	3 PDI I			PLL communications data input					
4	SL			Signal level input					
5	NL I			Noise level input					
6	MDSENS I			Demodulation detection input					
7	SOUND			Detuning sense composite signal input					
8	RMUTE O N			RDS mute output					
9-11	OPEN	0	N	L output					
12	AVCC			5V power supply input					
13	13 AVR			5V power supply input					
14	14 AVSS			Connect to GND					
15	IRSEL			μCOM select input					
16	RCK			RDS recovery modulation clock input					
17	RDT			RDS recovery modulation data input					
18	LDET			PLL lock detection input					
19	RDSLK			RDSLK signal input					
20	IRRST			μCOM reset input					
21	MOD0			Connect to GND					
22	MOD1			Connect to GND					
23	XIN			Oscillator input					
24	XOUT	0	С	Oscillator output					
25	VSS			Connect to GND					
26	DRST	0	С	Decoder reset output					
27	L/S	0	С	Noise level sensitivity select output					
28	CURRQ	Ο	С	PLL-TV-Fix output					
29	IRRDY	0	С	Communications ready output					
30	RECIVE	0	С	Open					

Pin No.	Pin Name	I/O	Format	Function and Operation
31	CORR	0	С	Open
32	ERROR	0	С	Open
33	NC	0	С	Open
34-37	NC			Open
38	DK			Open
39	39 SK I			Open
40-49	NC			Open
50	50 VSS 51 TEST I			Connect to GND
51				Test program input
52	IRCK			Communications clock input
53	IRDO	0	С	Communications data output
54	IRDI			Communications data input
55	RDS57K			57kHz BP-OUT sense input
56	GD	0	С	Tuner unit gate line control output
57	VCC			5V power supply input
58	SD			SD signal input
59	PCE	0	С	PLL communications enable output
60-64	NC	0	N	Open

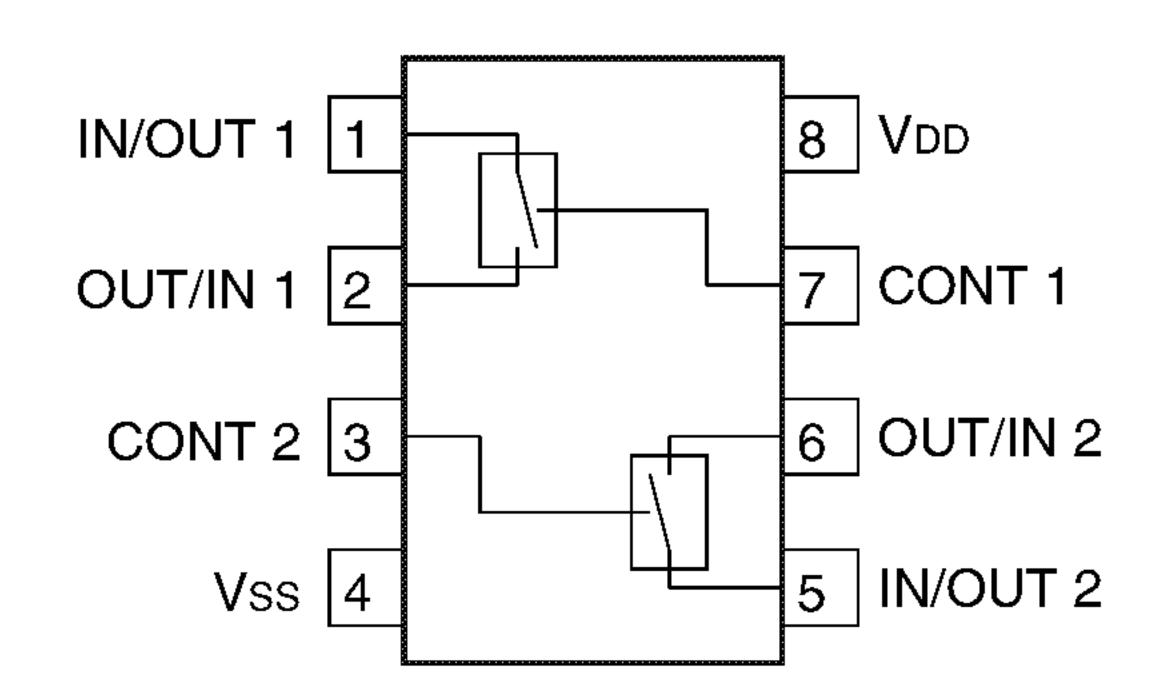
*PD6217A



Format	Meaning
С	C MOS
Ν	N channel open drain

IC's marked by* are MOS type.
Be careful in handling them because they are very liable to be damaged by electrostatic induction.

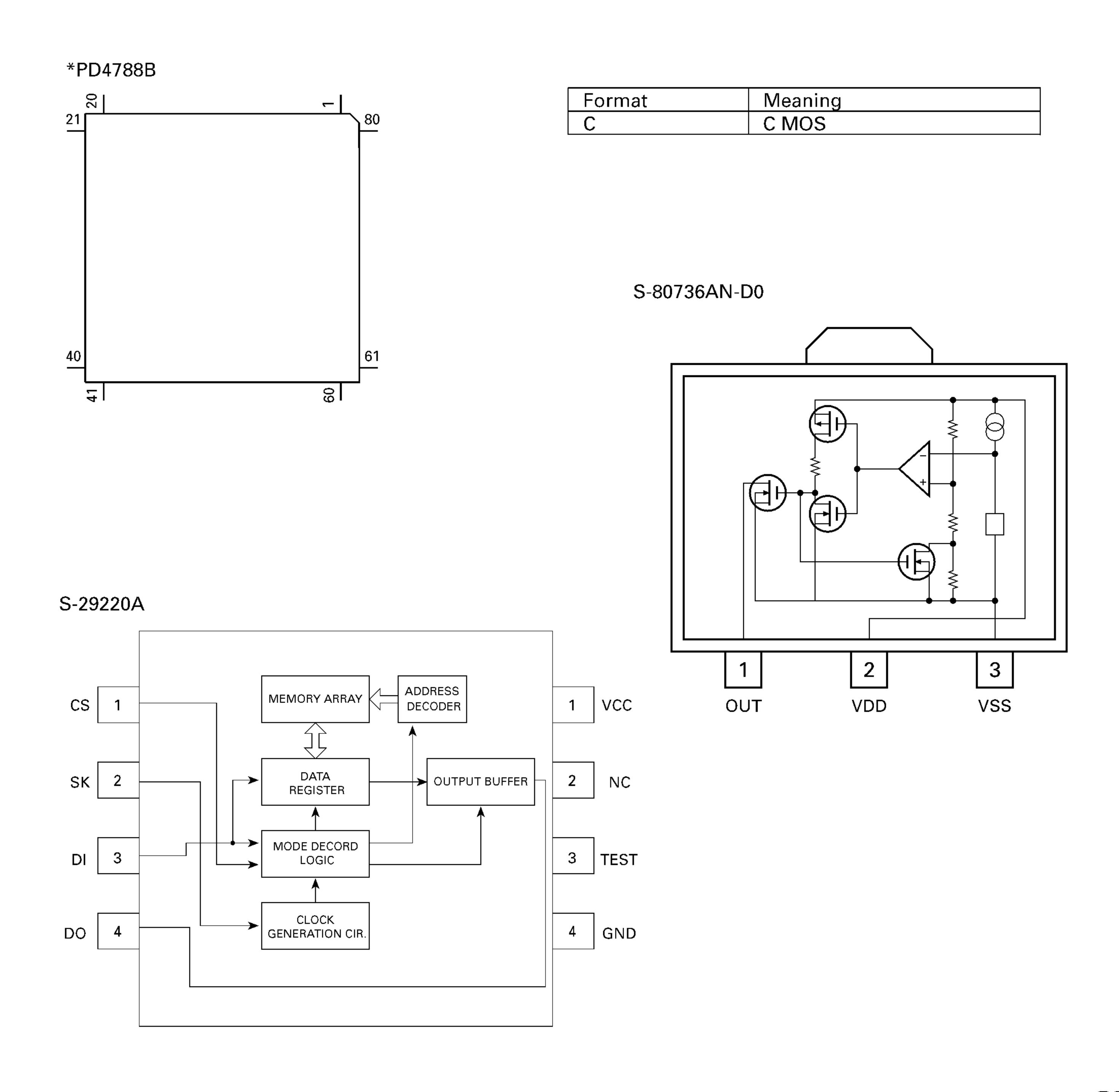
TC7W66F



Pin Functions (PD4788B)

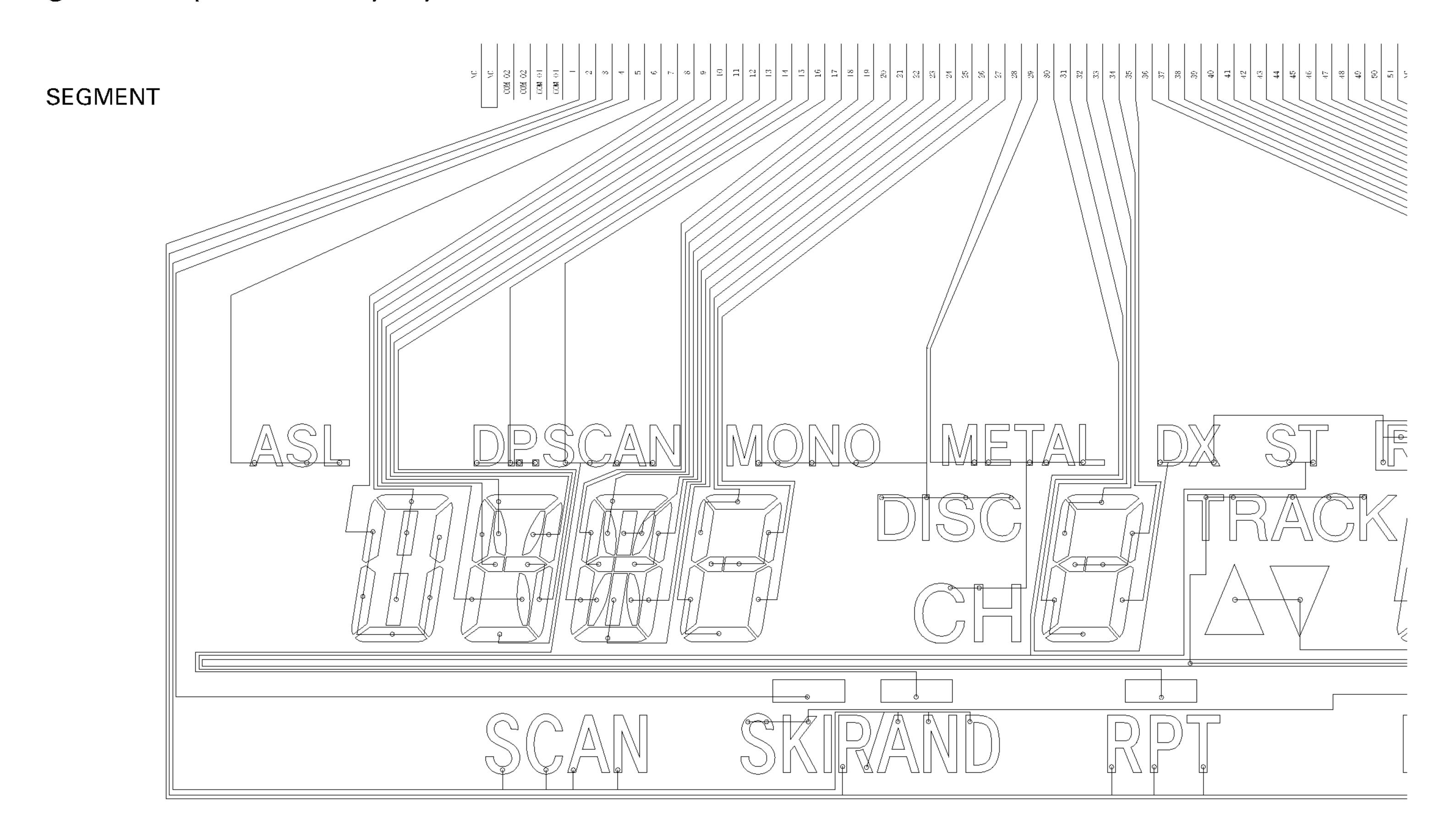
	11005 (PD4/88			
Pin No.	Pin Name	I/O	Format	Function and Operation
1	FAD			A/D input(FADER)
2	MAINVOL			A/D input(VOLUME)
3	VOL+			Not used
4	AVSS			A/D GND
5	VOL-			Not used
 	-			
6	PCE	0	С	Chip enable output for PLL IC
/ /	AVREF1			VDD
8	PDI			Data input from PLL IC
9	PDO	0	С	Data output for PLL IC
10	PCK	I/O		Serial clock for PLL IC
11	EDI			Data input from EEP ROM
12	EXDO	Ō	С	Extension/EEP ROM data output
13	EXCK	Ö		Extension/EEP ROM clock data output
		<u> </u>	<u> </u>	
14,15	LCE 0,1	<u> </u>	<u> </u>	Chip enable output pin for LCD driver 0,1
16	RDI	<u> </u>		RDS data input
17	RDO	0	С	RDS data output
18	RCK	0	С	RDS clock data output
19	ECE	0	С	Chip enable output for EEP ROM
20–26	KST0-6	0	С	Key strobe output 0-6
27	KD0/TEST	Ī	_	Key return input 0/Test
28–30	KD0/1201 KD1-3	<u> </u>		Key return input 1-3
				,
31	MSIN			MS sense input
32	F/R	0	С	Cassette mechanism head forward/reverse select output
33	VSS			GND
34	PLAY	0	С	MS gain select output
35	MTL			Metal tape detection
36	LOAD			Loading detection
37	POS			Position sense input
38	RES	i		Reverse end sense input
	NES	'		
39				Cassette mechanism forward end sense input
40,41	SC2,1	0	<u>ر</u>	Cassette mechanism sub motor control output 2,1
42	<u>CM</u>	0	С	Cassette mechanism capstan motor control output
43	STBY	0	C	Stand-by output
44	B/C			Not used
45	NR	0	C	Dolby NR ON/OFF output
46	SWVDD	0	С	SWD Vdd,Vref
47	TAPED	Ō	C	Tape power ON/OFF input
48	FMD	$\frac{1}{0}$		FM power control output
 		-		
49	AMD	0	<u> </u>	AM power control output
50	SYSMUT	0	Ü	System mute output
51	<u>NC</u>			Not used
52	TUMUT	0	С	Tuner mute output
53	NC			Not used
54	ST			Stereo indicator input
55	IPPWR	0	С	IP power output
56	IPDO	Ŏ	C.	IP driver data output
57	IPDI	 		IP driver data output
<u> </u>				
58	RDSRST	0	<u> </u>	Reset output for RDS IC
59	RDSSEL	<u> </u>	<u> </u>	Select output for RDS IC
60	RESET			Reset input
61	RDSRDY			Ready input from RDS IC
62	ASEN			ACC sense input
63	ĪSEN			Illumination sense input
64	BSEN	 		Back up sense input
65	EXCE	0		MB88306 enable output
		_		
66 67	EXED1	0		MB88306 Data load output
	EJECT	1 1 1		Eject key input pin

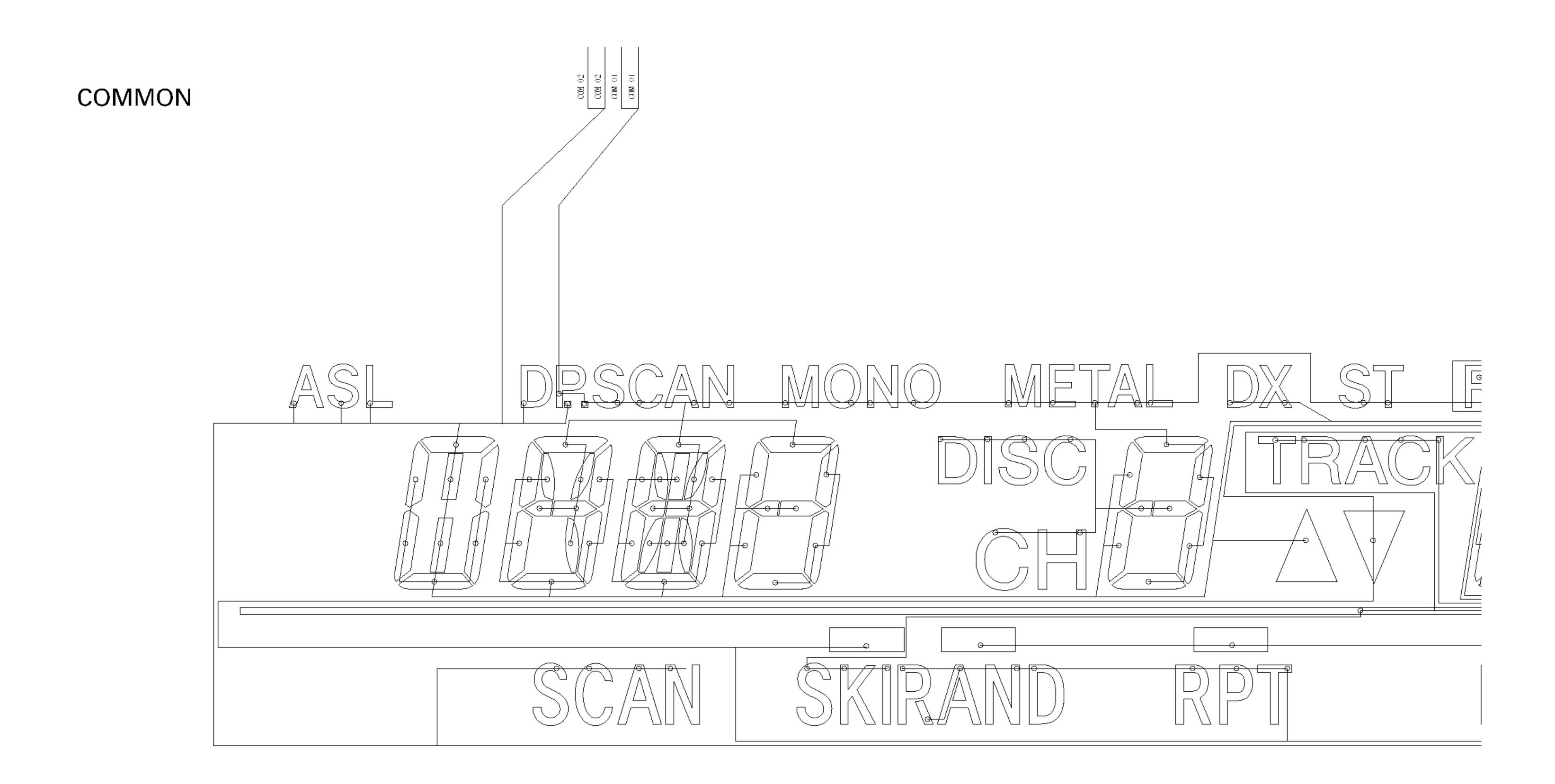
Pin No.	Pin Name	I/O	Format	Function and Operation				
68	VDD			Power supply				
69	X2	0		Oscillator output				
70	X1			Oscillator input				
71	IC			Connect to GND				
72	XT2			Not used				
73	SD I			Station detector input				
74	AVDD			Positive power supply terminal for analog circuit				
75	AVREF0			A/D converter standard voltage input				
76	SL			Signal level input				
77	BAS			A/D input (BASS)				
78	MID			A/D input (MID)				
79	TRE			A/D input (TREBLE)				
80	BAL			A/D input (BALANCE)				

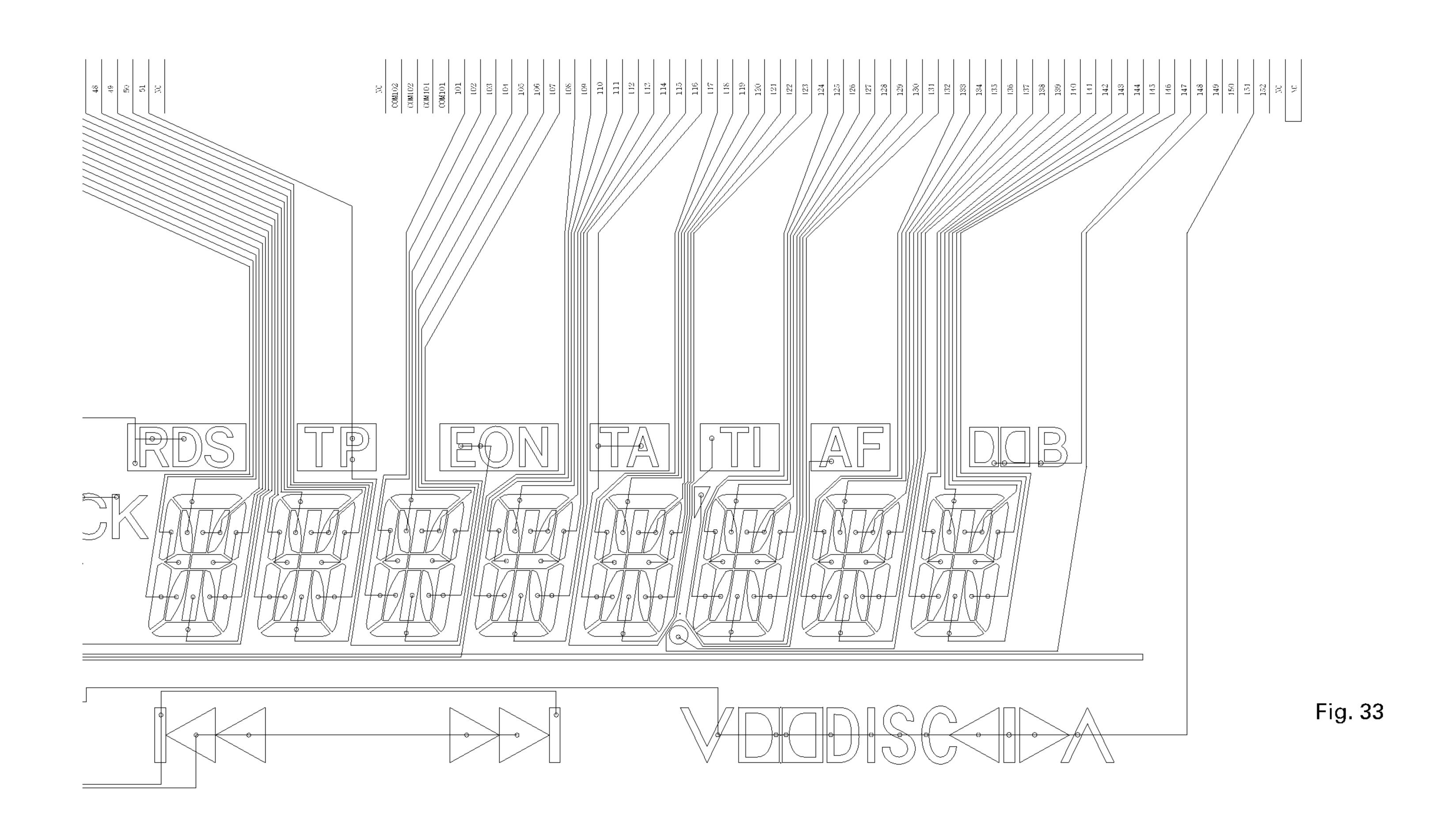


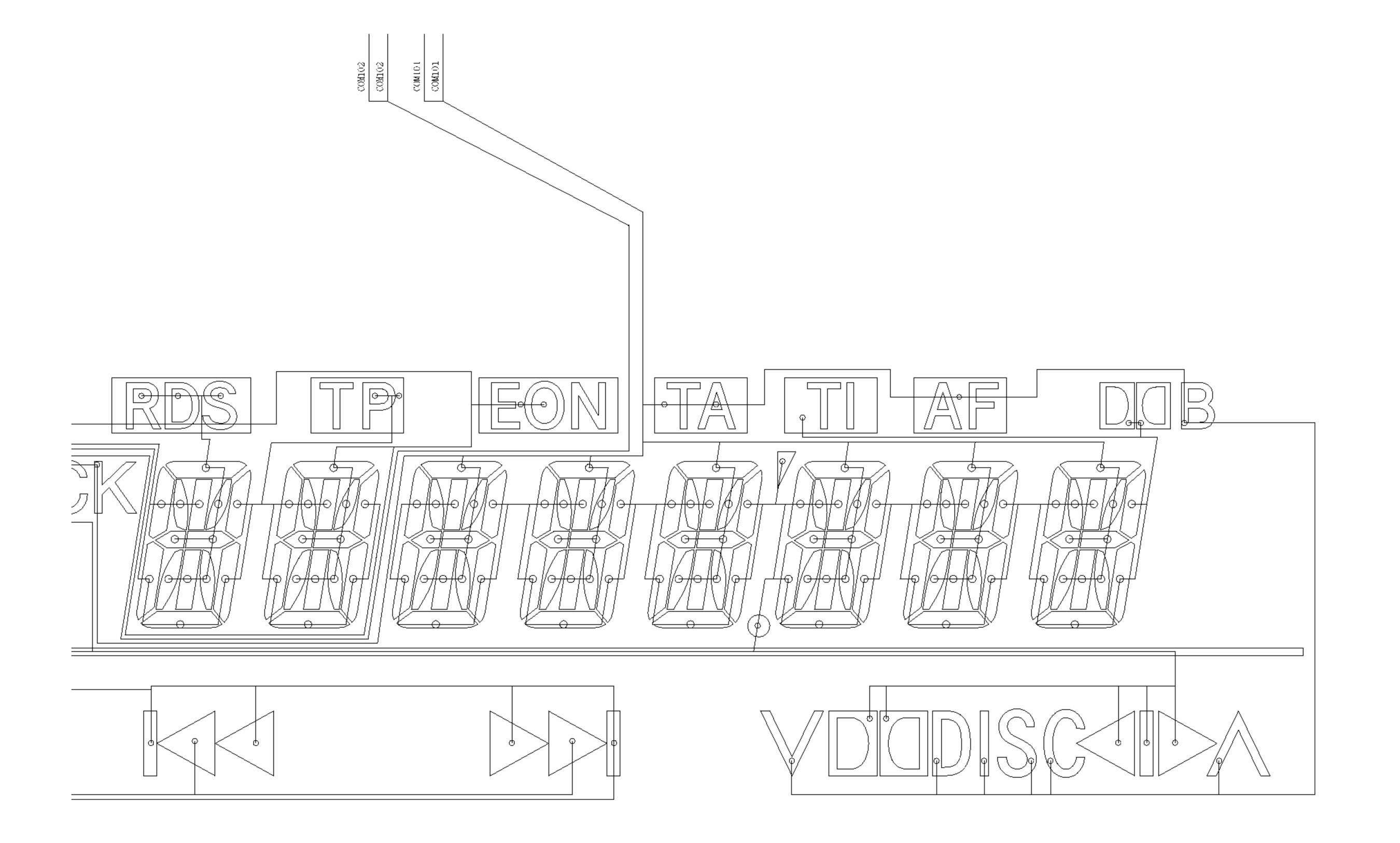
7.1.2 DISPLAY

● CAW1402(KEX-M9176ZT/EW)







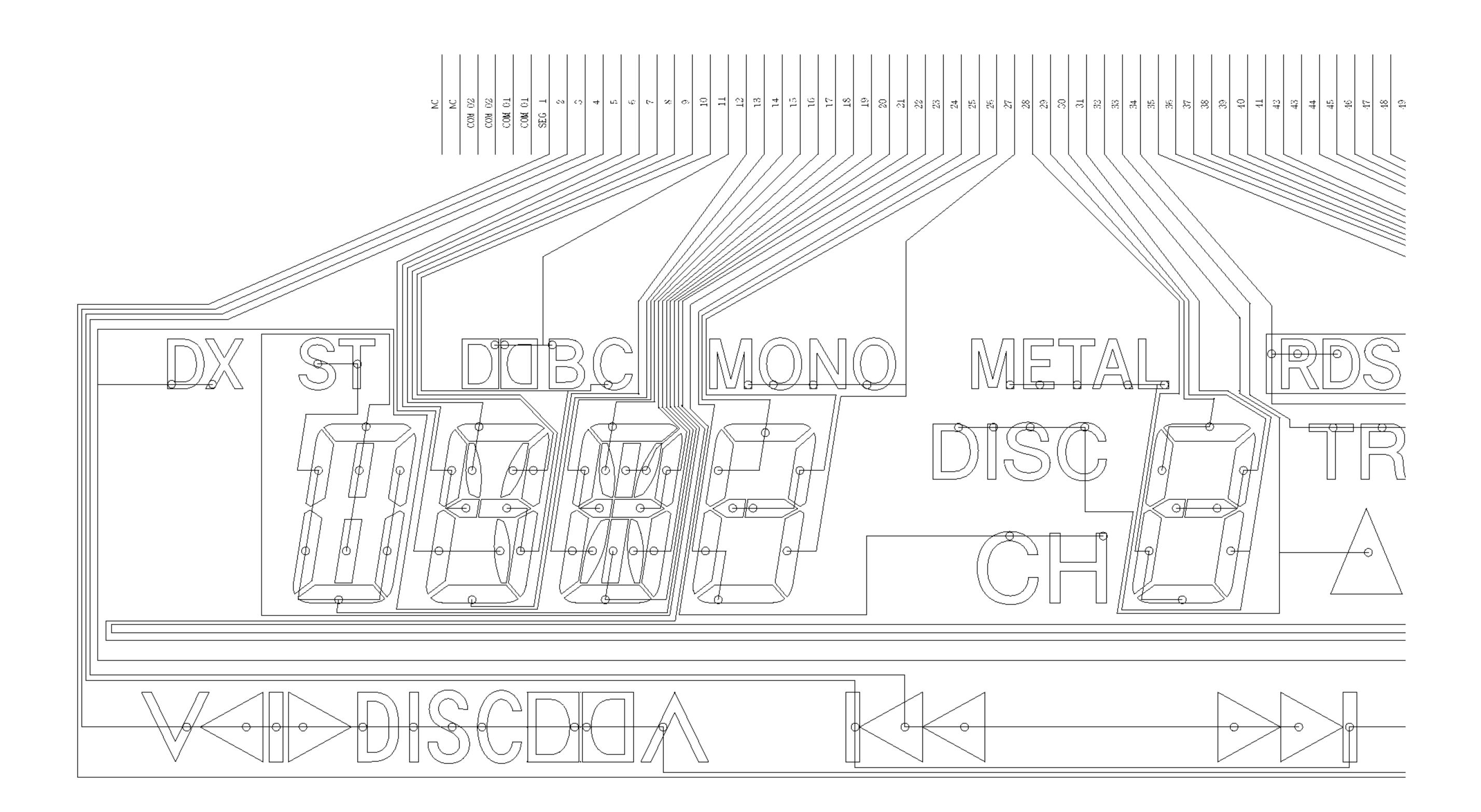


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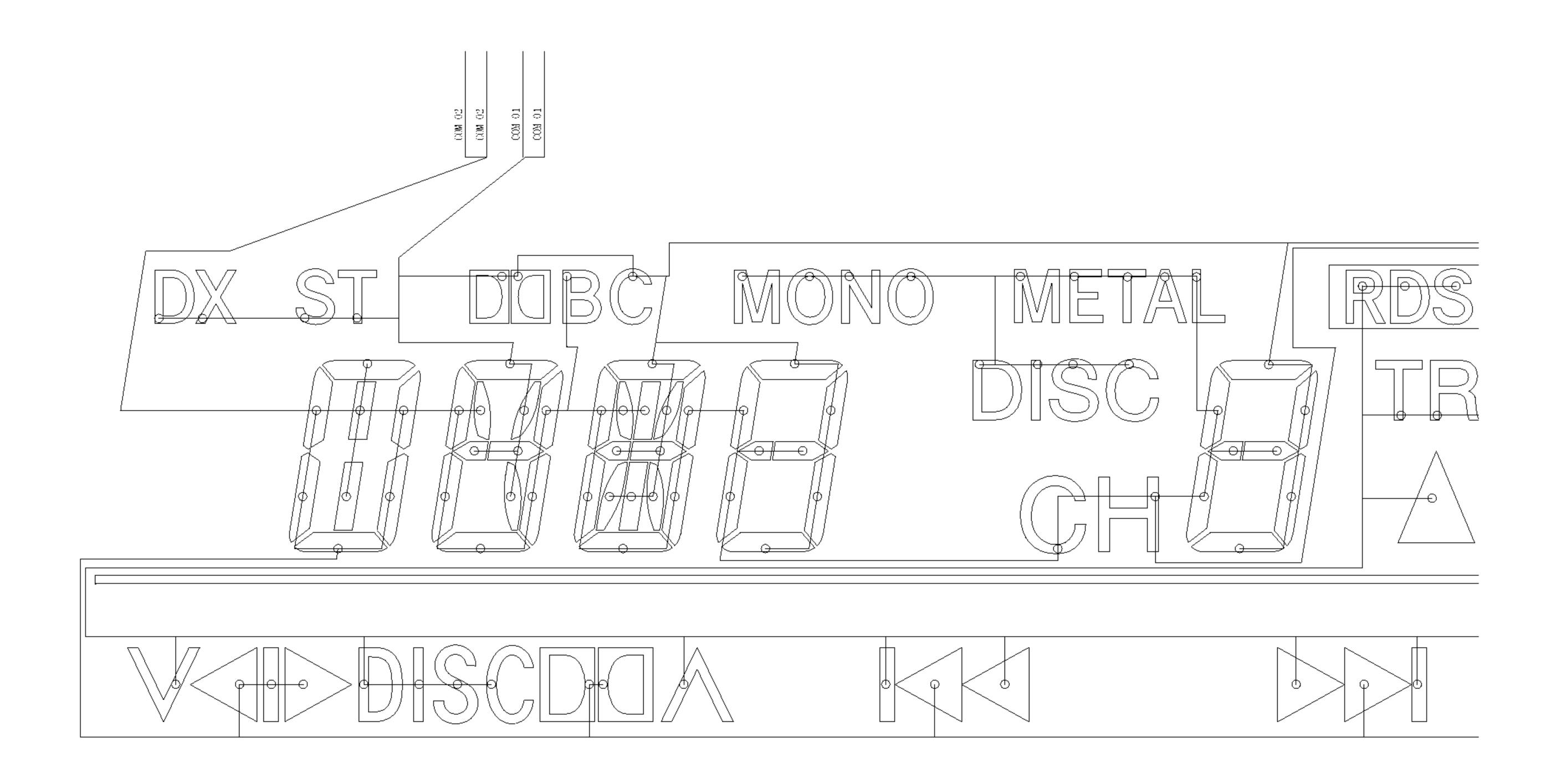
Fig. 34

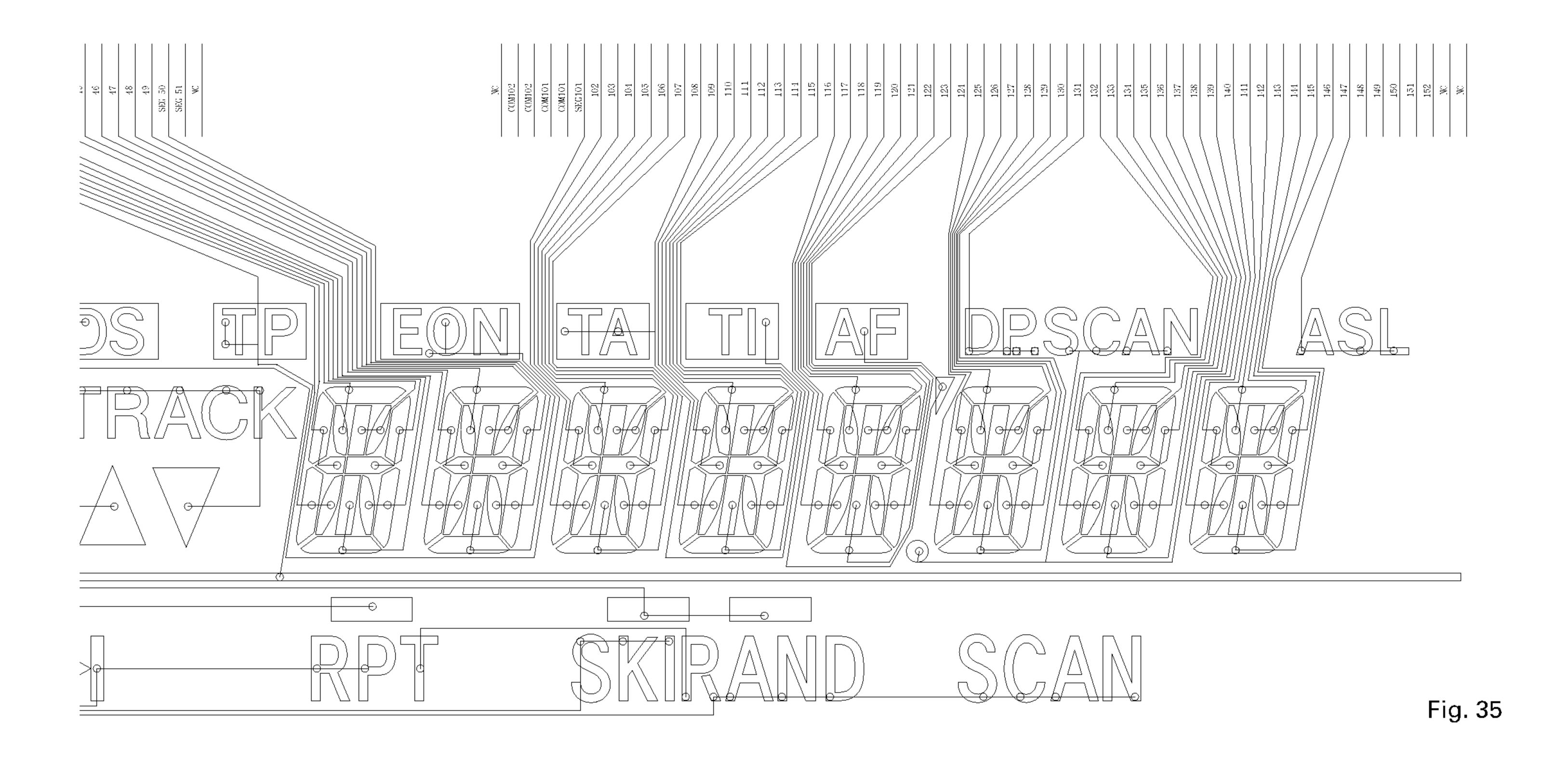
CAW1401(KEX-M9076ZT/EW)

SEGMENT



COMMON





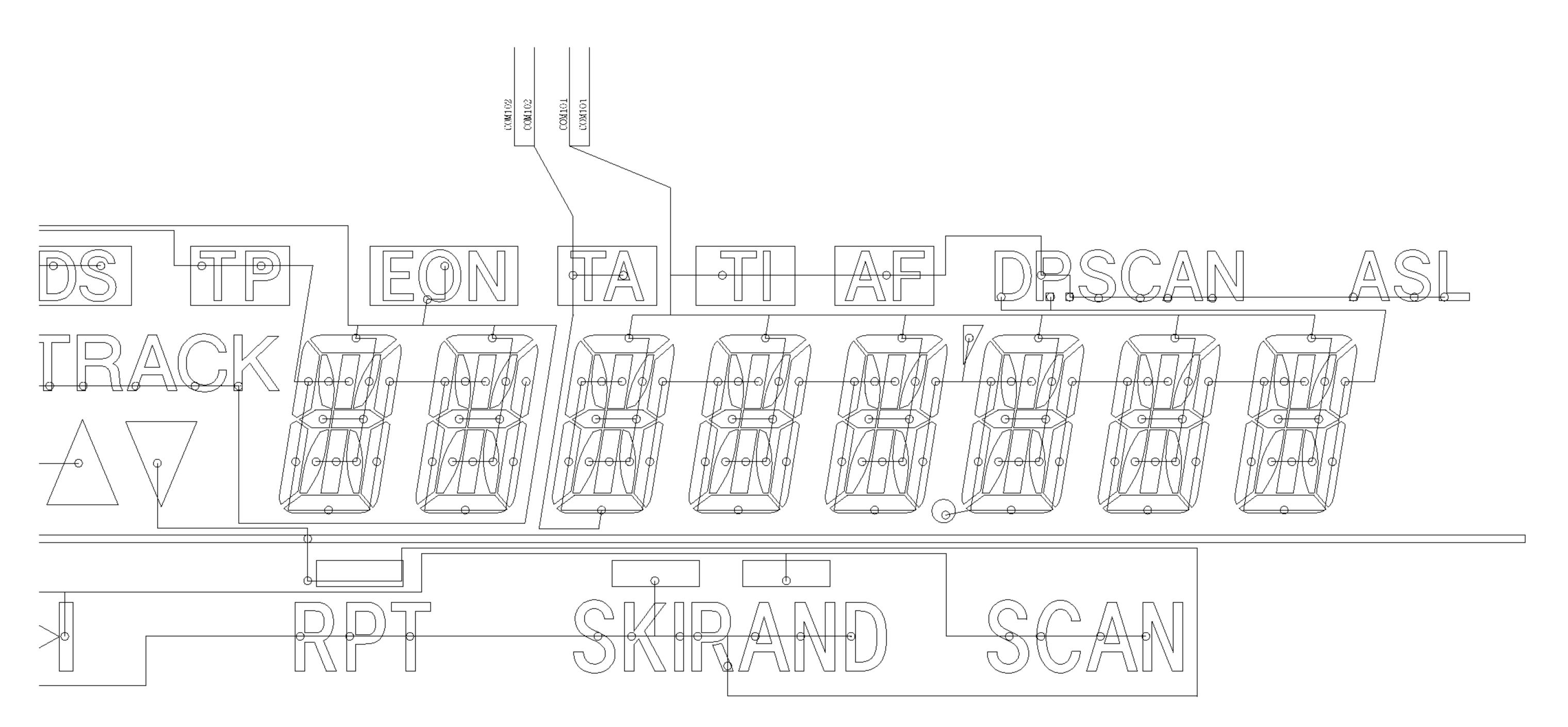
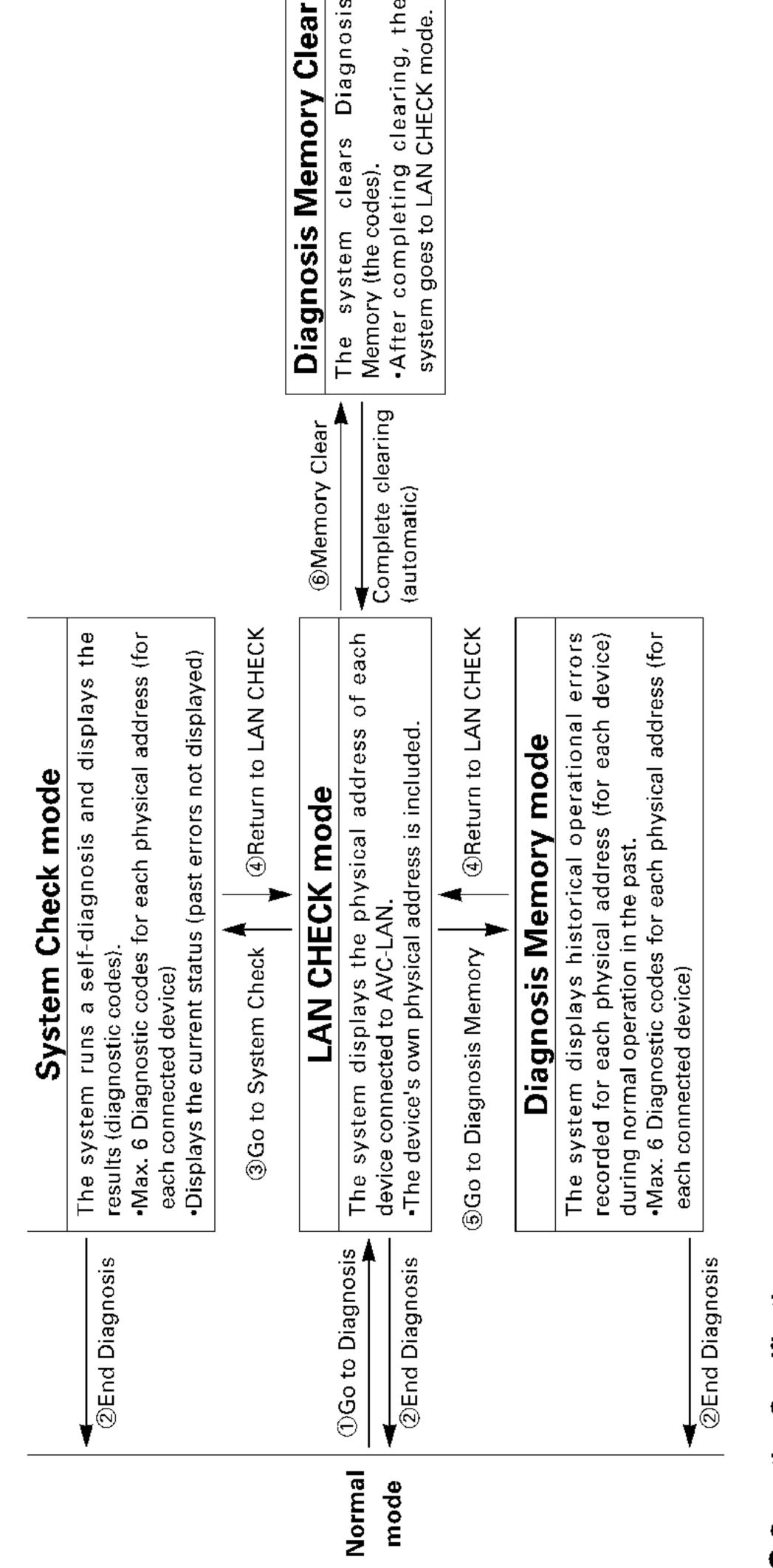


Fig. 36

7.2 DIAGNOSIS

7.2.1 DIAGNOSIS MODE



Operation Specifications

	KEX-M9176ZT/EW,M9076ZT/EW
①Go to Diagnosis	Press the CD key three times,
	while holding down CH1 or CH6.
②End Diagnosis	CD key (Press and hold for 1.7 seconds.)
	ACC OFF/ON
©Go to System Check	CH1
	СН6
©Go to Diagnosis Memory	CH2
®Memory Clear	CH5 (Press and hold for 1.7 seconds.)
•Page up	TUNE +
•Page down	TUNE -

Flowchart and Functions

## A PIDIN Computer	1 2 3 4 1DIN Machine 1TV Machi	1 2 3 4 5 1 2 3 4 5	1 2 3 4 5 6 7 AV 1DIN EMV CDROM navigation CD-CH with big set to controller controller controller controller below as decoder multiplex decoder multiplex decoder as a 4 5 6 7 7 8 6 7 8 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	2 3 4 5 6
3 4 1DIN machine -TV machine video video video sette video video sette video s	3 4 5 5 AV 1DIN EMN machine -TV tuner CD-CH with video video video DSP DSP CD-CH COntroller CD-CH Settle video video and video Settle video and vi	3 4 5 6 3 4 5 6 3 4 5 6 17 tuner CD-CH with video video controller controller CD-CH Sette without CH CD-CH Sette controller CD-CH Sette	3 4 5 6 7 8 Available of the controller of the	3 4 5 6 7 8 3 4 5 6 7 8 Av holin EMV CD-ROM avagation avideo 3 4 5 6 7 8 Radiocas- CD-P Settle without CH controller controller avideo 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8 3 4 5 6 7 8	3 4 5 6 7 8 9 A B COT Number CD-CH Multiple CD-CH M	3 4 5
3 4 AV 1DIN machine -TV machine video video video DSP Badio/cas- CD-P sette video video Sette Sette Sette Avideo Sette Sette Sette Sette Sette Avideo Sette Sette Sette Sette Sette Avideo Sette	3 4 5 5 AV 1DIN EMN machine -TV tuner CD-CH with wideo video video DSP DSP CD-CH COntroller CD-CH Settle without CH CO-CH Settle video Settle video Settle video Settle settle settle video Settle set	3 4 5 6 3 4 5 6 3 4 5 6 10 10 10 10 10 10 10 10 10 10 10 10 10 1	3 4 5 6 7 8 Available of the controller of the	3 4 5 6 7 8 3 4 5 6 7 8 Av holin EMV CD-ROM Ravigation Ravidation with video CD-CH with video CD-CH Settle without CH CD-CH Settle without CH CD-CH Settle without CH CD-CH MD-P Settle without CH CD-CH MD-CH CD-CH MD-CH CD-CH MD-CH CD-ROM CD-CH MD-CH CD-CH MD-CH CD-ROM CD-CH MD-CH MD-CH CD-CH MD-CH MD-CH CD-CH MD-CH MD-	3 4 5 6 7 8 9 A B COT Number CD-CH Multiple CD-CH M	4 5 6
	2	9	1 DIN EMV CD-ROM navigation	5 6 7 8 6 7 8 6 7 8 6 7 8 6 7 8 8 8 6 7 8 8 8	5 6 7 8 9 A B C C Fear seat Fear seat Fear seat Fear south Fear seat Fear south Fear seat Fear south Fear seat Fear south	9
			5 6 7 8 8 CD-ROM navigation	5 6 7 8 6 CD-ROW navigation navig	5 6 7 8 9 A B C CD-ROM	9
			6 7 8 6 7 8 6 7 8 6 7 8 8 8 6 7 8 8 8 6 7 8 8 8 8 7 8 8 8 8 7 8 8 8 8 7 8 8 8 7 8 8 8 8 7 8 8 8 8 7 8 8 8 8 7 8 8 8 8 8 7 8 8 8 8 8 8 8 8 8 8 7 8	6 7 8 6 6 7 8 6 6 7 8 6 6 7 8 8 8 6 7 8 8 8 7	6 7 8 9 A B C Control Audio Rear seat Rear Control Audio Rear seat Rear Control Sw With SW	
8 8 9 8 8 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9	8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9				S of the second	В
8 9 A Bear Body Audio Audio Audio Audio H/U TV B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A B B 9 A A B 9 A B	Audio Audio Audio Pear Rear ECU H/U TV	A A A A A A A A A B B A B	A A Bear A A A A A A A A A A A A A A A A A A A	B S S S S S S S S S S S S S S S S S S S		ပ
Audio Audio Fear seat Rear ECU H/U SW	8 9 A B C Control	A B B C A B C C A B B C C A B B C C A B B C C A B B C C C C	A B B C A B	B B C B B B B B B B B B B B B B B B B B		٥
S 9 A B C	8 9 A B C	A B C C Sww vith Sw with Sw Sw with Sw with Sw With Sw With Sw With Sw Sw Sw With Sw Sw Sw With Sw Sw Sw Sw With Sw	A B C C Sw with Sw with Sw with Sw A B C C A B	B C DAT Bear seat Rear Pear Point SW with SW with SW B C B C B C B C B C B C B C B C B C B	CD-CH Commander	ш
S 9 A B C D E	8 9 A B C D E Audio Audio IV Sw confroit B 9 A B C D E B 9 A B C D E WD-P MD-CH DAT B 9 A B C D E H.W AMP CD-RM MD-P MD-CH B 9 A B C D E CD-RM MD-P MD-CH B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E B 9 A B C D E	A B C D E CO-CH Chirtol Comman A B C D E C D E C CHIRTOL Comman A B C D E E C D E E A B C D E E E E A B C D E E E A B C D E E E A B C D E E E A B C D E E E A B C	A B C D E E CD-CH Rear soat Rear CD-CH Comman Sw WD-CH CD-CH CD-	B C D E E CD-CH With SW With SW SW With SW		Щ

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≿ I	1 - 1	Serial No. Diagnostic code Example: 3—D2	∥ The third content of Diagnosis is "No response to periodical	S	*1 Instruction to check for an error in periodical communications is interrupted.	 Items corresponding each model 	<during diagnosis="" memory="" mode=""></during>	• KEX-M9176ZT/EW, KEX-M9076ZT/EW		During System Check mode>KEX-M9176ZT/EW,KEX-M9076ZT/EW	No Diagnostic code assigned 00					
	ш														No response to Diagnosis	le for ons
	ш															stic code
	۵	No response to commu- nications	Commu- nications failure	No response to periodical communica-tions		*										Diagnostic
	ပ															
	В	AUDIO ECU error														
	⋖	Switch error								Antenna	Main	Sub antenna error	TV antenna error	Antenna selector error		lar dev
	ნ	EQ error								LCD						a particu
	∞	Amplifier error								DSP						cific to
	7	MD deck or MD-CH error		MD, CH	MD, CH ↑	MD, CH	MD, CH	function		СН	MD, CH	,				code spe
	9	CD deck or CD-CH error	CD, CH EJT failure	Dirt, scar and upside- down in CD, CH	Detected P.U tem- perature in CD, CH	Detected overcur- rent in	CD, CH			CH tray error CH	error CD, CH clamp	error				Diagnostic
	വ	Cassette deck error	Cassette deck EJT failure	Tape entan- gled in the cassette deck	Dirt in cassette deck head	Broken cassette deck belt] <u>i</u>
	4		AM tuner error	FM tuner error				5								
	က															code
	2	Micropro- cessor error	ROM	RAM error												Diagnostic on devices
	ļ	+B error	ACC	MUTE												mon Dia
⊕	0	NO ERR														Com
		0	2	7	က	4		വ	9	7	6	⋖	a	C D/E	. Ц	

Go to Diagnosis (Beep and Display)

	LAN-CHECK mode	System Check mode	Diagnosis Memory mode
Beep	The system beeps three times when starting up Diagnosis.	The system beeps three times when changing to another mode.	• The system beeps three times when changing to another mode.
		The system beeps once every time a physical address is displayed.	 The system beeps once every time a physical address is displayed.
Display	The system displays the physical address of each	When changing to another mode	When changing to another mode
	device connected to AVC-LAN in sequence from the lowest address.	Blinking "SYS" is displayed.	Blinking "CODE" is displayed.
	Example: 1 — 1E0	After completing System Check	• Then, "Latest periodical communications
	Serial No. Physical address (CD commander)	Displays a physical address. ••Identifies the device.	number is displayed. ••Elapsed time at the current point is displayed.
		_	Example: 1F
		Physic Distin	Elapsed time (31 minutes)
		Displays a Diagnostic code.	 The system displays a number from 00 to FF (increases a digit every minute).
		es the type of error.	 When 256 minutes are reached, the system returns to 00.
		Example: 1 — d2	• Displays the details of Diagnosis.
		Serial No. Diagnostic code (no response to periodical	Displays a physical address.
		communications} Max. 6 for each physical address	(Same as the left.)
			Displays a periodical communications number.
			Example: 1 02
		rial N	2
		1DIN-TV has recorded an error indicating there is no response to periodical communications	Displays Diagnostic code. (Same as the left.)
		in CD-CH.	Displays an auxiliary code. (Same as the left.)
		When there is no physical address:	▼ Displays a physical address.
		Displays a physical address. The next lowest physical address	• When there is no Diagnostic data:
		When there is no Diagnostic code after completion of System Check	
		00	
		The system changes as shown above, as this unit does not include System Check.	

7.2.2 ANTI-THEFT SECURITY SYSTEM

• HOW TO INPUT THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

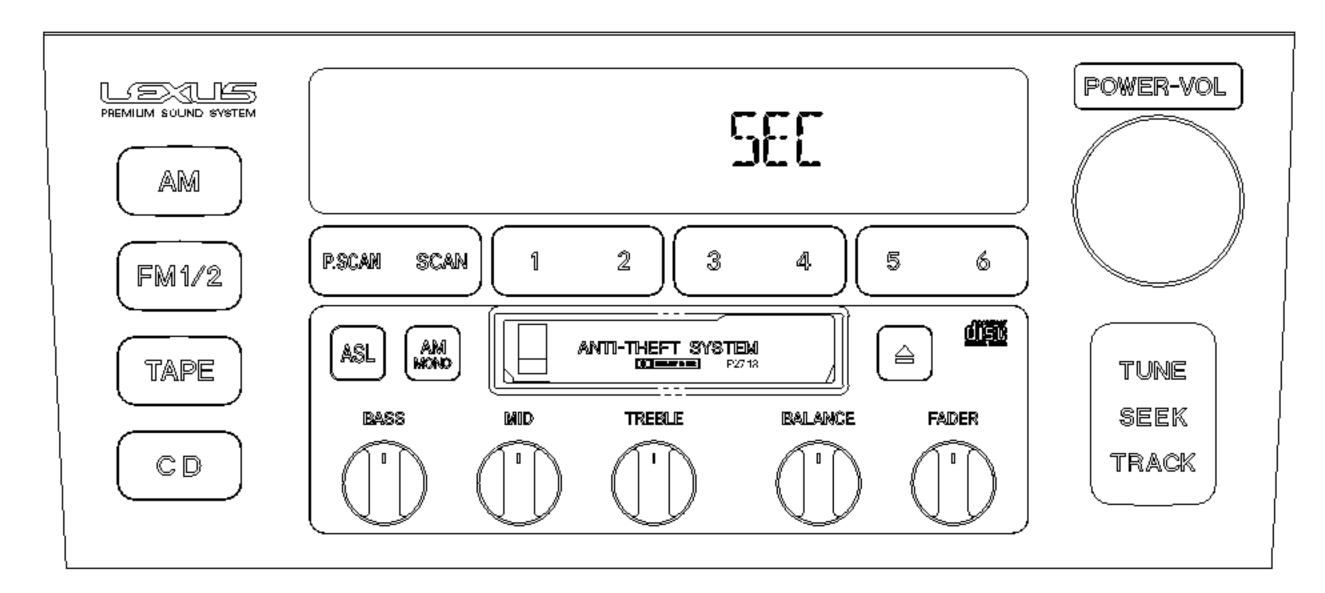


Fig. 37

2. READY MODE

PRESS and HOLD the "TUNE[\land]" button in and PRESS the "1" button. The display will read " $\blacktriangle \blacktriangledown ---$ ".

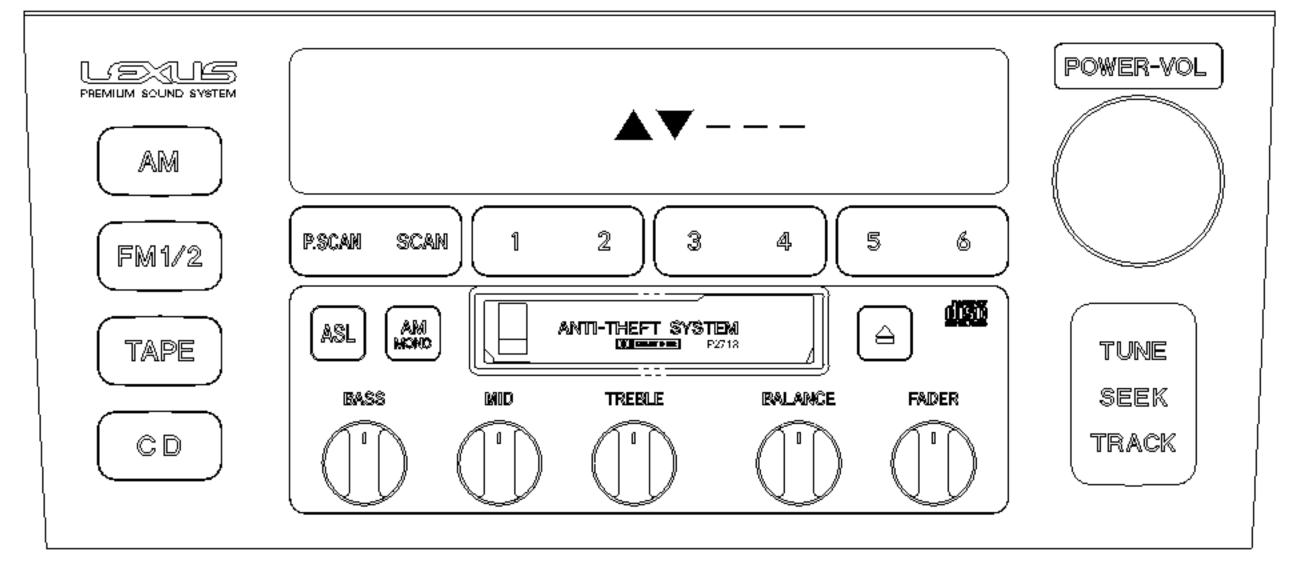


Fig. 38

3. INPUT MODE

Note: User has up to ten seconds to input each digit.

Now you're ready to input a three digit Identification number.

To set the **first** ID digit:

 PRESS "1" repeatedly until the desired number appears on the display

To set the **second** ID digit:

 PRESS "2" repeatedly until the desired number appears on the display

To set the **third** ID digit:

 PRESS "3" repeatedly until the final desired number appears on the display

EXAMPLE: If the desired ID number is 314, you'd press "1" four times, press "2" twice, and press "3" five times. (Code digit range zero through nine.)

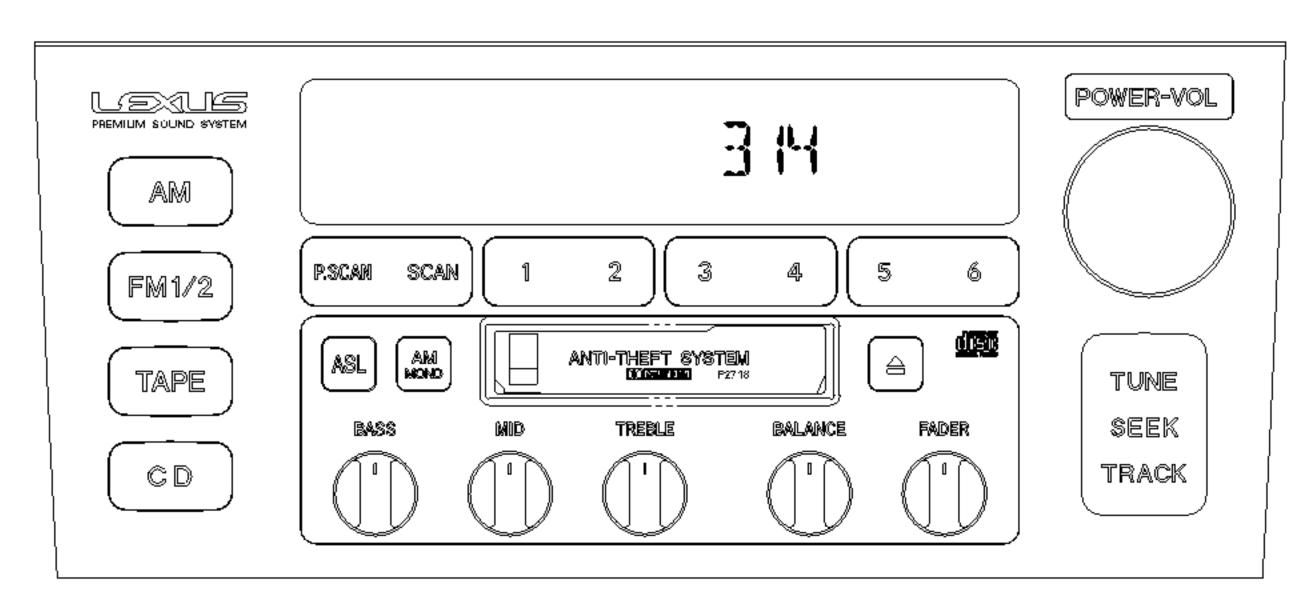


Fig. 39

4. SET MODE

With the ID number now appearing on the display:

 PRESS the "SCAN" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

NOTE: 1) CREATE AN ID NUMBER EASY TO REMEMBER.

- 2) KEEP ID NUMBER IN A RELIABLE PLACE.
- 3) DON'T LEAVE ID NUMBER IN THE VEHICLE!

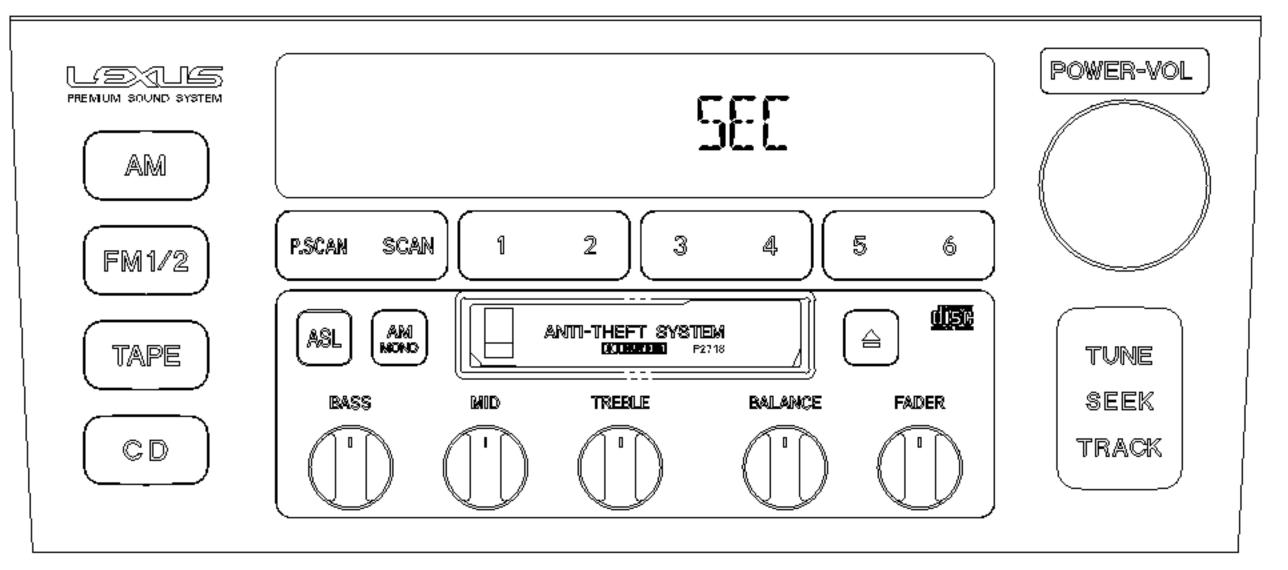


Fig. 40

● HOW TO CHANGE THE THREE DIGIT SECURITY SYSTEM CODE

1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

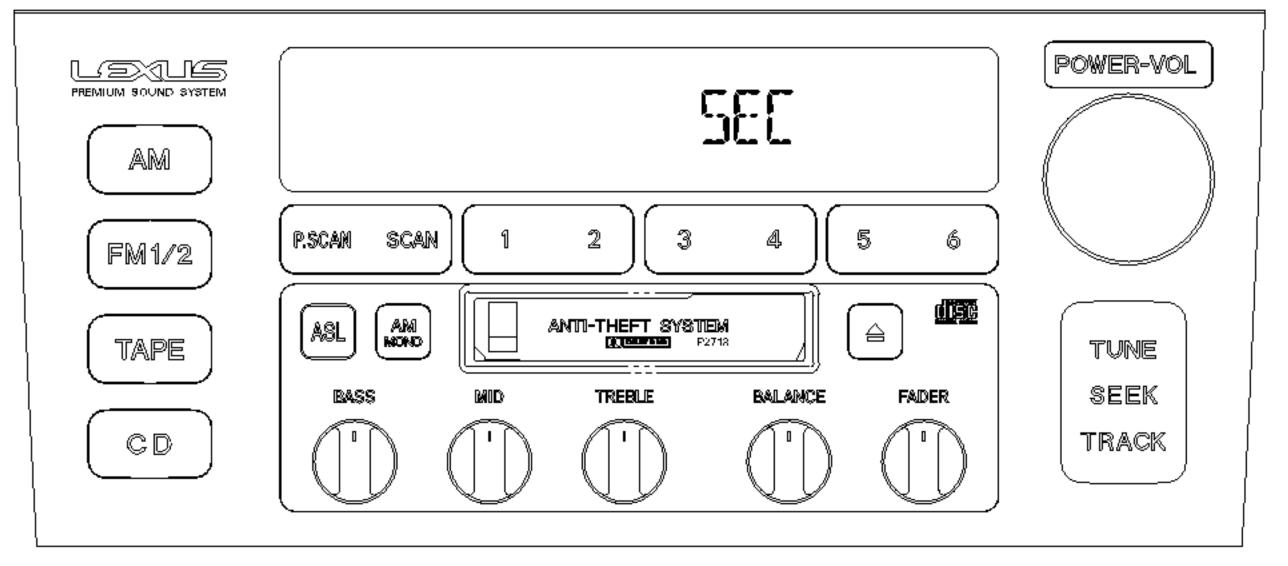


Fig. 41

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1" button. The display will read " $\blacktriangle \nabla ---$ ".

3. INPUT MODE

Input existing three digit ID numbers.

4. SET MODE

Then, push "SCAN". The display will now read "---" continuously.

*(**"Err"** See "ERROR MESSAGE")

5. READY MODE

PUSH "TUNE [\land]" and "1" simultaneously. The display will read " $\blacktriangle \blacktriangledown ---$ ".

6. INPUT MODE

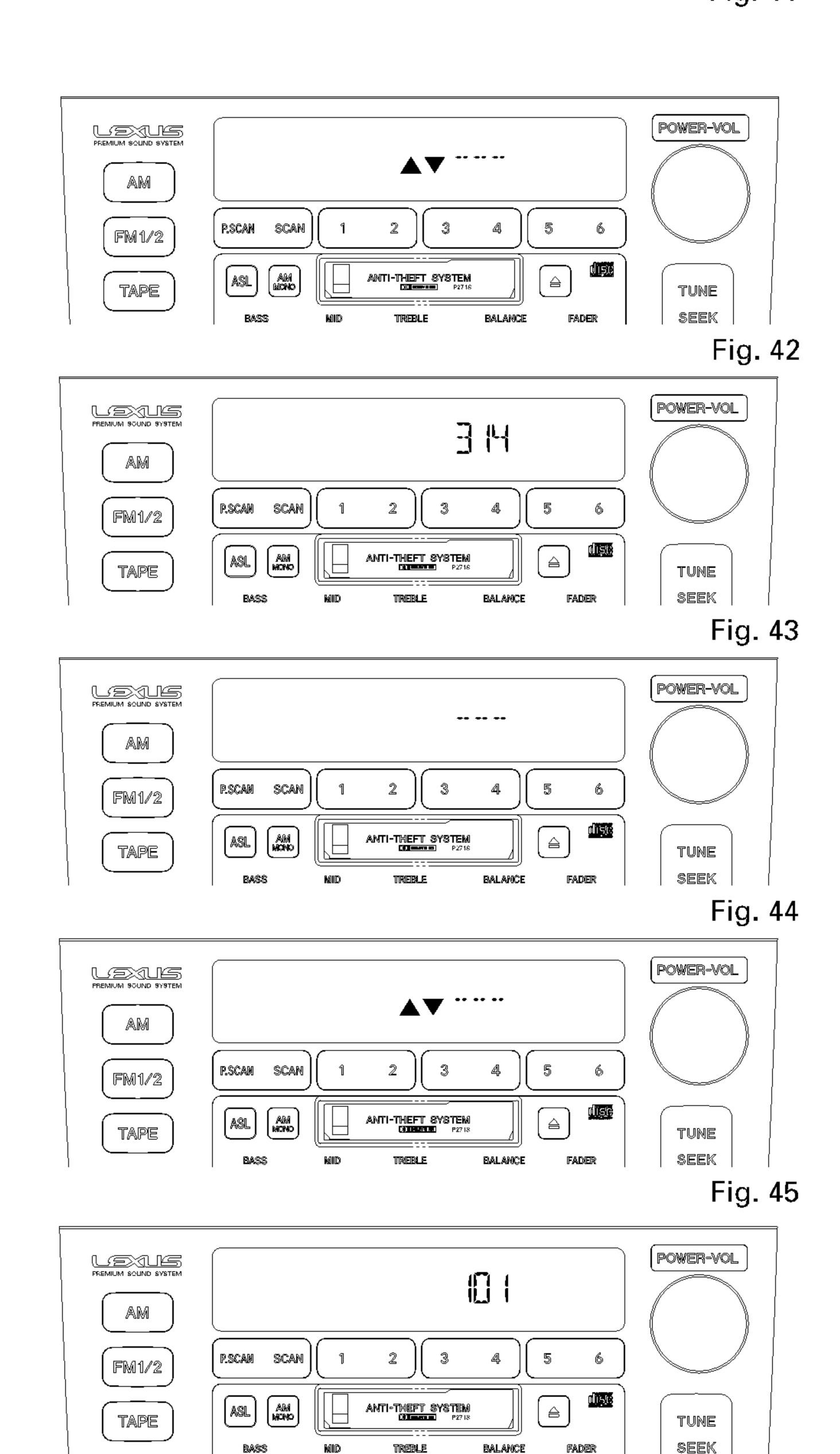
Now you're ready to input a new three digit ID number.

7. SET MODE

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With the ID number now appearing on the display:

 PRESS the "SCAN" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.



AM

FM1/2

TAPE

P.SCAN SCAN

ASL AM LICHO

Fig. 47

Fig. 46

POWER-VOL

TUNE

SEEK

SEC

 \triangleq

ANTI-THEFT SYSTEM
ONTH-WALL P2718

● HOW TO CLEAR THE SECURITY CODE

1. ACCESS MODE

First...

BE SURE THAT:

- the radio unit is turned off
- the ignition switch is in "ACC"

Then...

HOLD the "1" and "6" buttons, and simultaneously PUSH and HOLD the "POWER. VOL" knob in, until "SEC" appears, then release buttons.

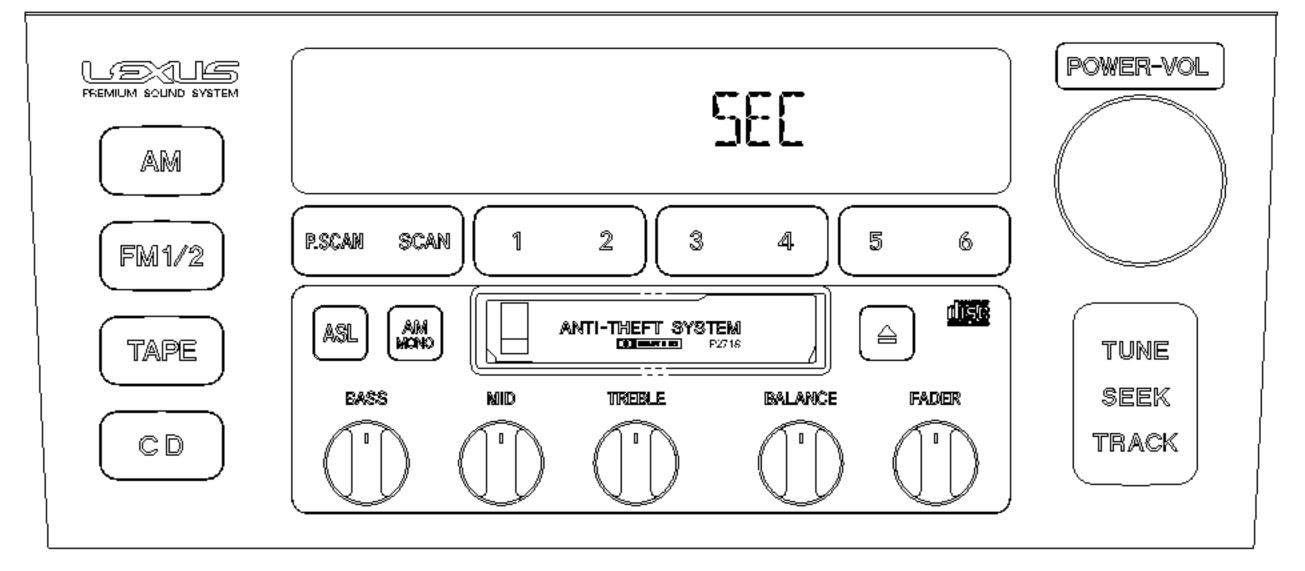


Fig. 48

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1" button. The display will read " $\blacktriangle \blacktriangledown ---$ ".

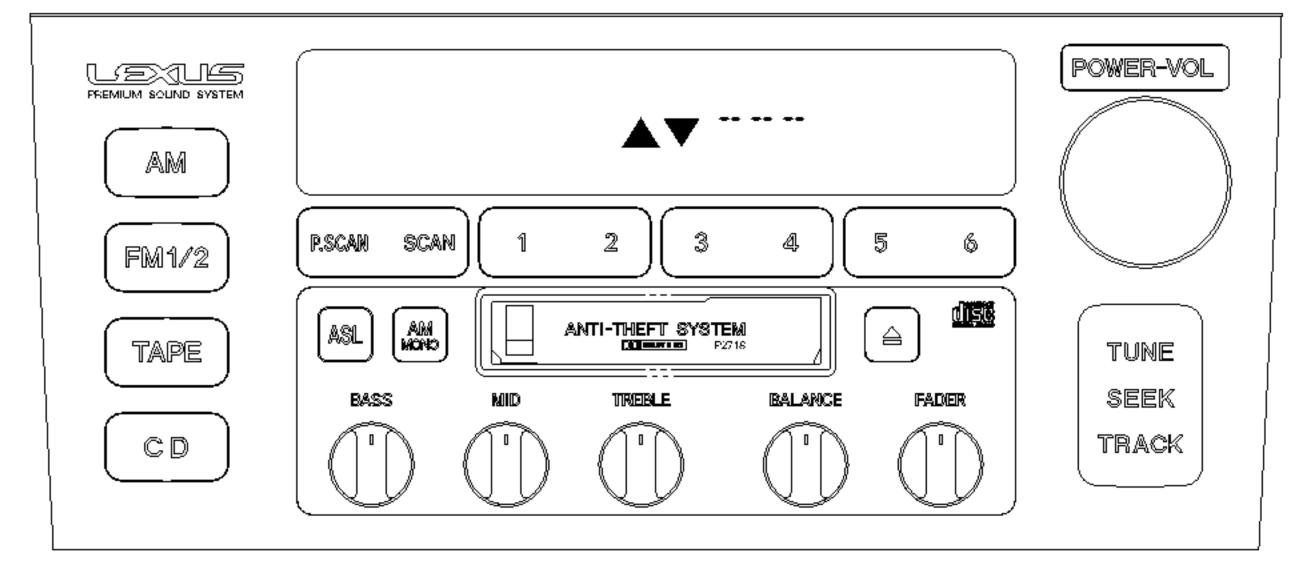


Fig. 49

3. INPUT MODE

Input existing three digit ID numbers.

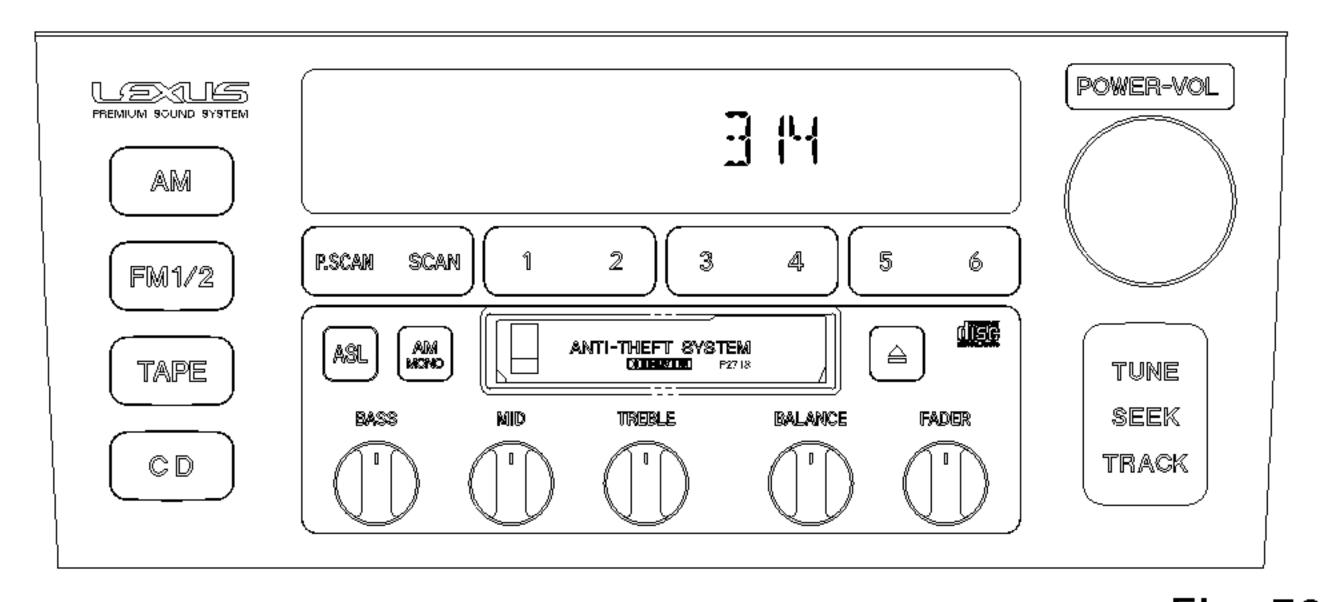


Fig. 50

4. SET MODE

Then, push "SCAN". The display will now read "---" continuously.

*("Err" See "ERROR MESSAGE")

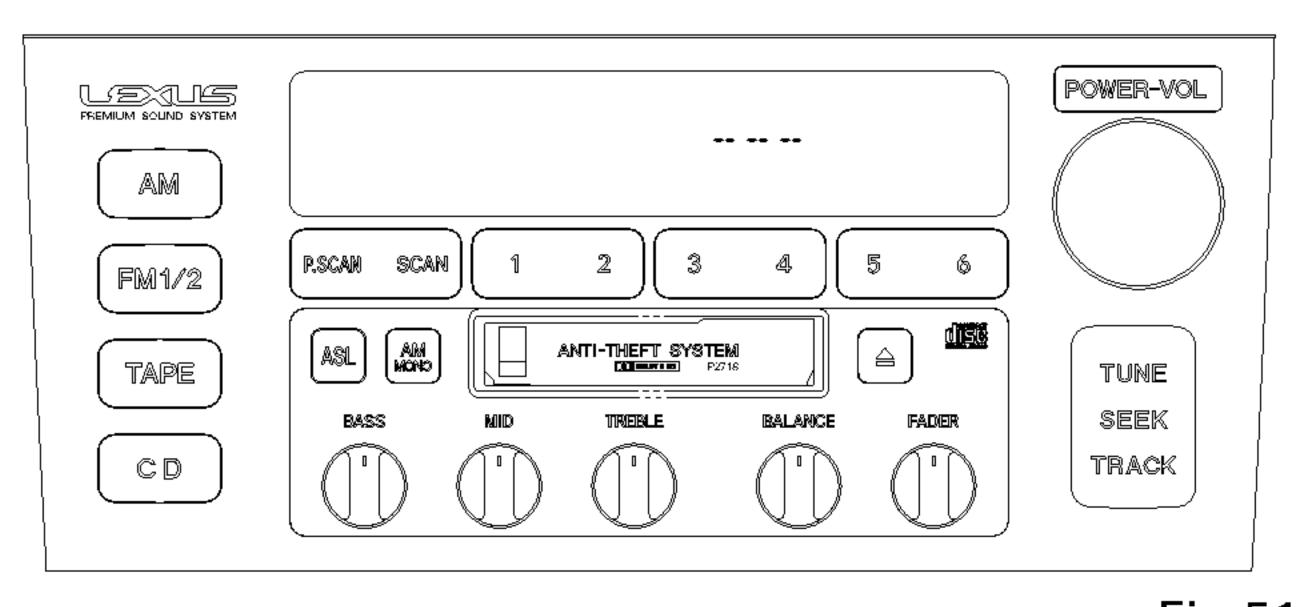


Fig.51

- **5.** WAIT for ten seconds. The security system clears itself and the display will **GO DARK**.
 - *(The security code should be cleared when the vehicle is resold.)

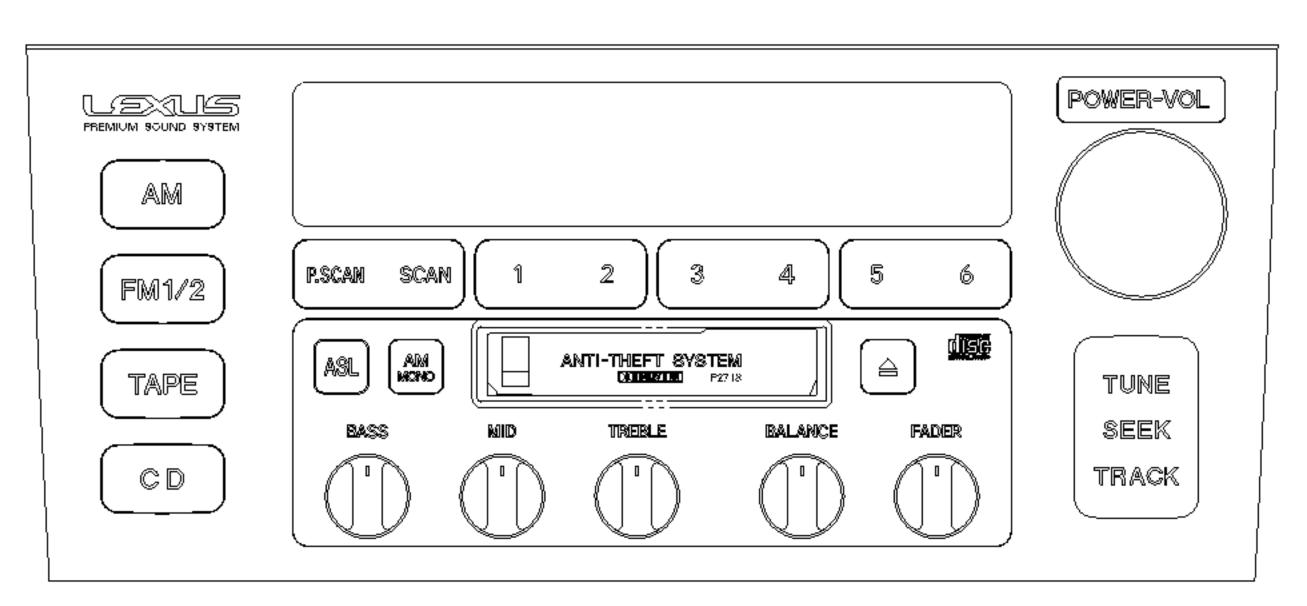


Fig. 52

HOW TO REACTIVATE A DISABLED ETR

1. If the power is disconnected by an attempted theft or loss of battery power, the display will read "SEC" continuously when the key is "on". Also, when the ignition key is turned to ACC, none of the ETR functions will function.

2. READY MODE

PRESS and HOLD the "TUNE [\land]" button in and PRESS the "1" button. The display will read " $\blacktriangle \nabla ---$ ".

3. INPUT MODE

Now you're ready to input the existing three digit Identification number.

To set the first ID digit:

 PRESS "1" repeatedly until the desired number appears on the display

To set the **second** ID digit:

 PRESS "2" repeatedly until the desired number appears on the display

To set the **third** ID digit:

 PRESS "3" repeatedly until the final desired number appears on the display

EXAMPLE: If the desired ID number is 314, you'd press "1" four times, press "2" twice, and press "3" five times. (Code digit range zero through nine.)

Note: User has up to ten seconds to input each digit.

4. SET MODE

With the ID number now appearing on the display:

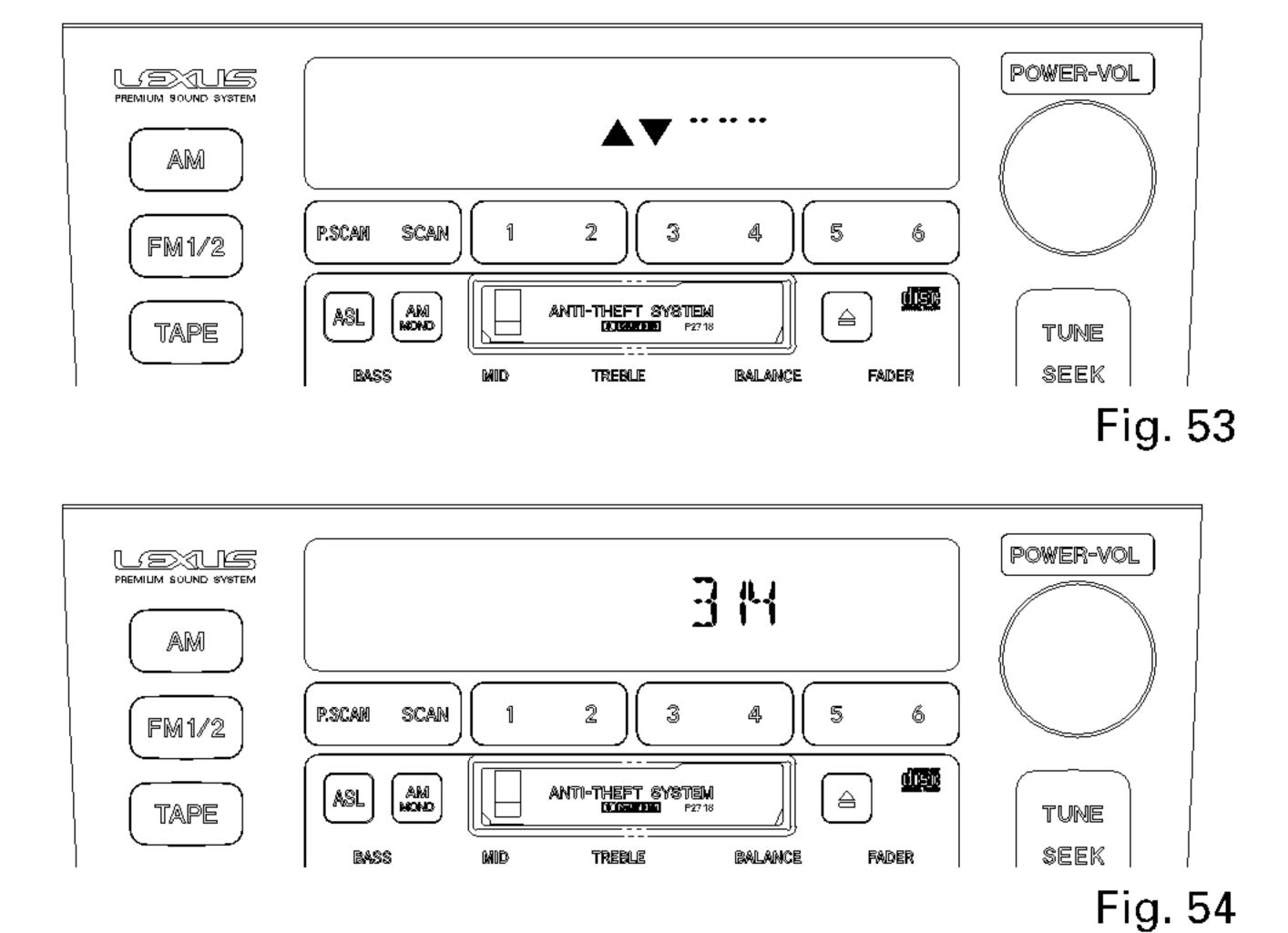
 PRESS the "SCAN" button and HOLD it in until "SEC" appears for a few seconds, then it will GO DARK.

ERROR MESSAGE

If the wrong buttons are pushed, "Err" will appear before "SEC" appears. Go back to Step 2 and try again. Or, if the display returns to " $\blacktriangle \blacktriangledown ---$ " during your input, try again from Step 3. BUT:

BE CAREFUL! On the tenth wrong input, the ETR unit goes dead and must be reactivated by an authorized service station.

TO VERIFY that the ID number has been accepted as the security code, turn the key "off", then turn it back on, "SEC" should appear. Once the anti-theft system is properly set, "SEC" will appear on the display each time the ignition key is turned to "ACC" after being off.



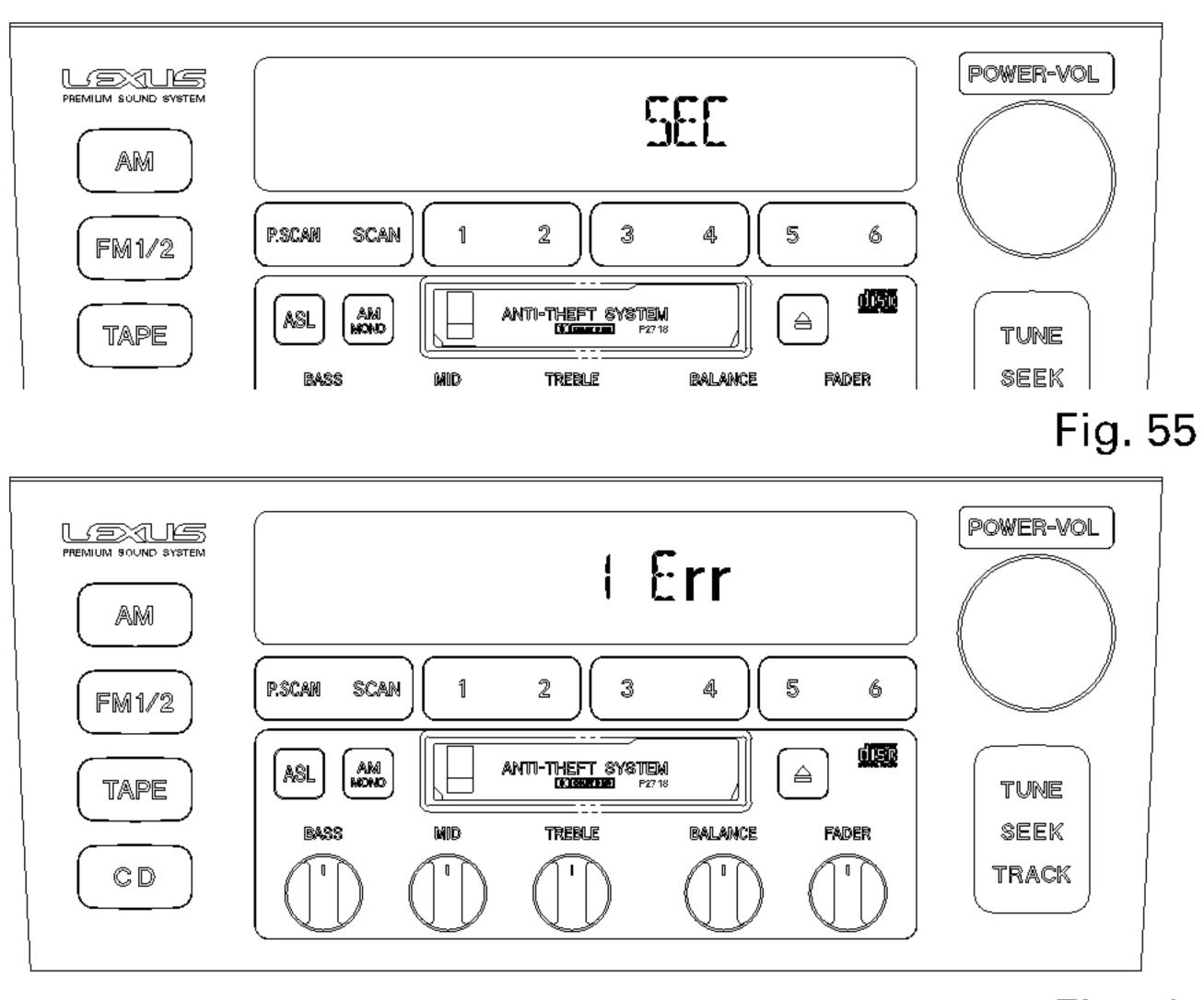


Fig.56

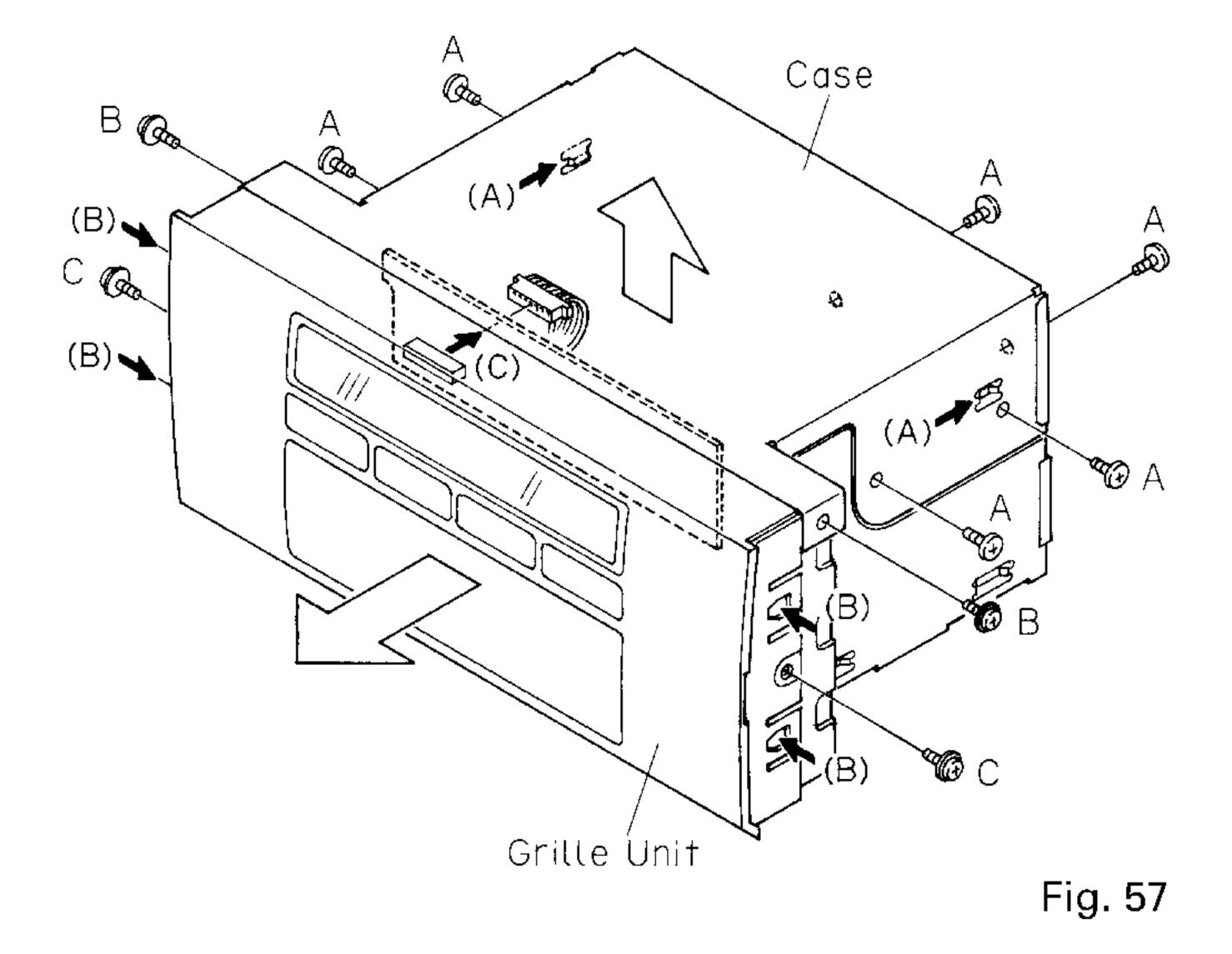
7.2.3 DISASSEMBLY

Removing the Case(Fig. 57)

- 1. Removing the six screws A and two screws B.
- 2. Disengage the tabs at two locations indicated by arrows (A).
- 3. Removing the Case.

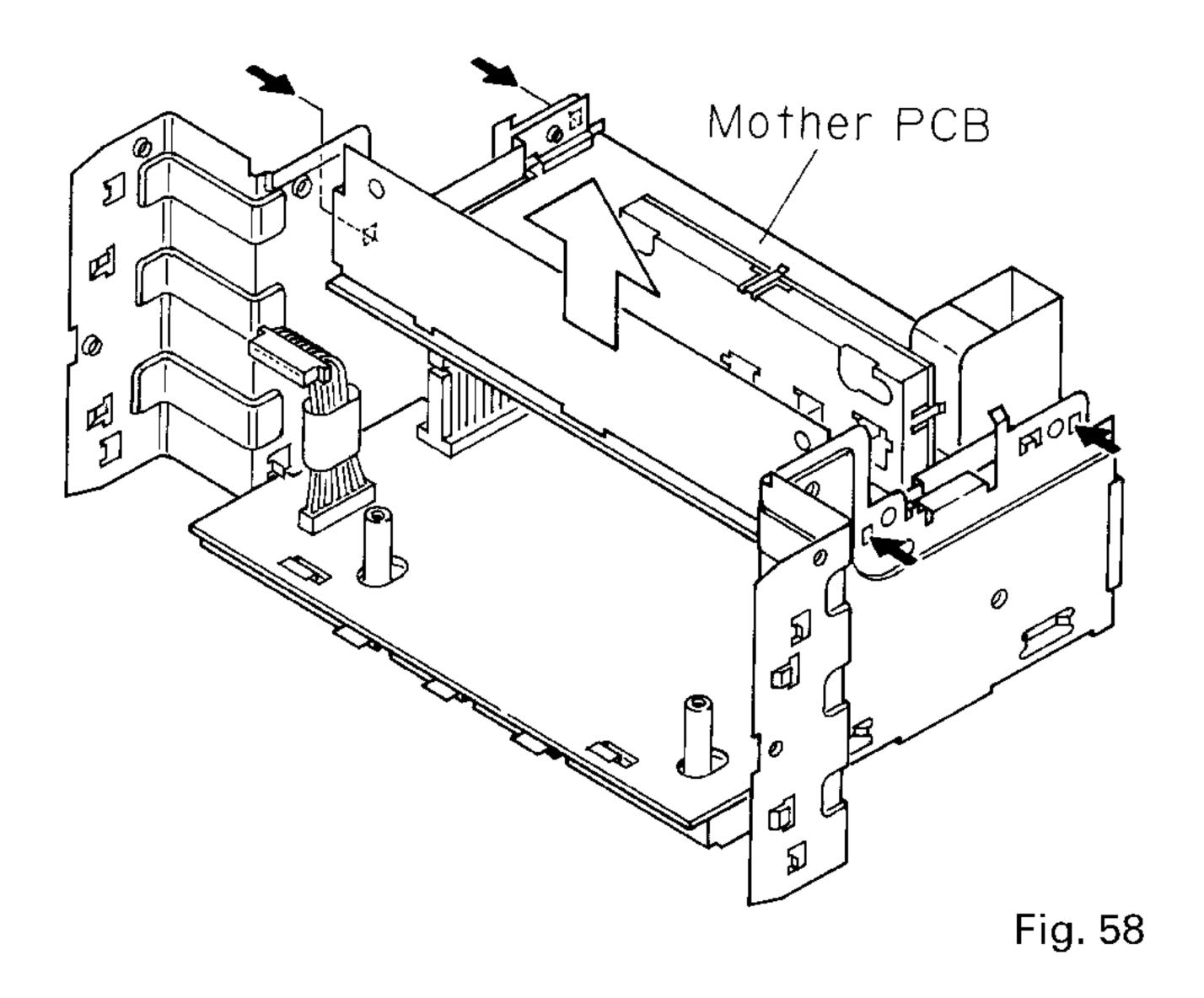
Removing the Grille Unit (Fig. 57)

- 1. Removing the two screws C.
- 2. Disengage the stopper at four locations indicated by arrows (B).
- 3. Disconnect the connector at location indicated by arrow (C), Removing the Grille Unit.



Removing the Mother PCB (Fig. 58)

- Disengage the stopper at four locations indicated by arrows.
- 2. Removing the Mother PCB.

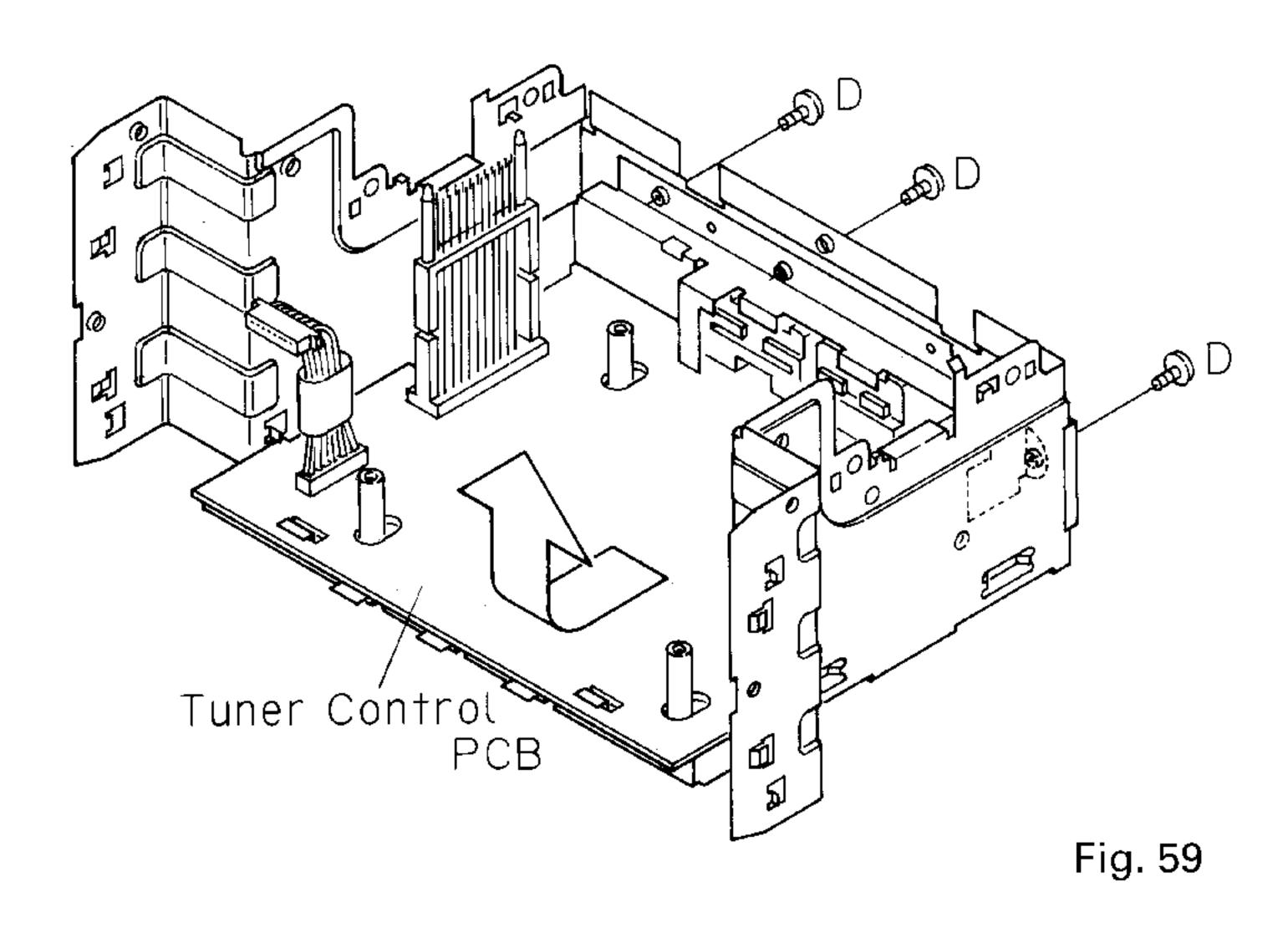


Removing the Cassette Mechanism Module (not shown)

- 1. Removing the four screws.
- 2. Disconnect the connector, and then removing the Cassette Mechanism Module.

Removing the Tuner Control PCB(Fig. 59)

- 1. Removing the three screws D.
- 2. Removing the Tuner Control PCB.



7.2.4 CONNECTOR FUNCTION DESCRIPTION

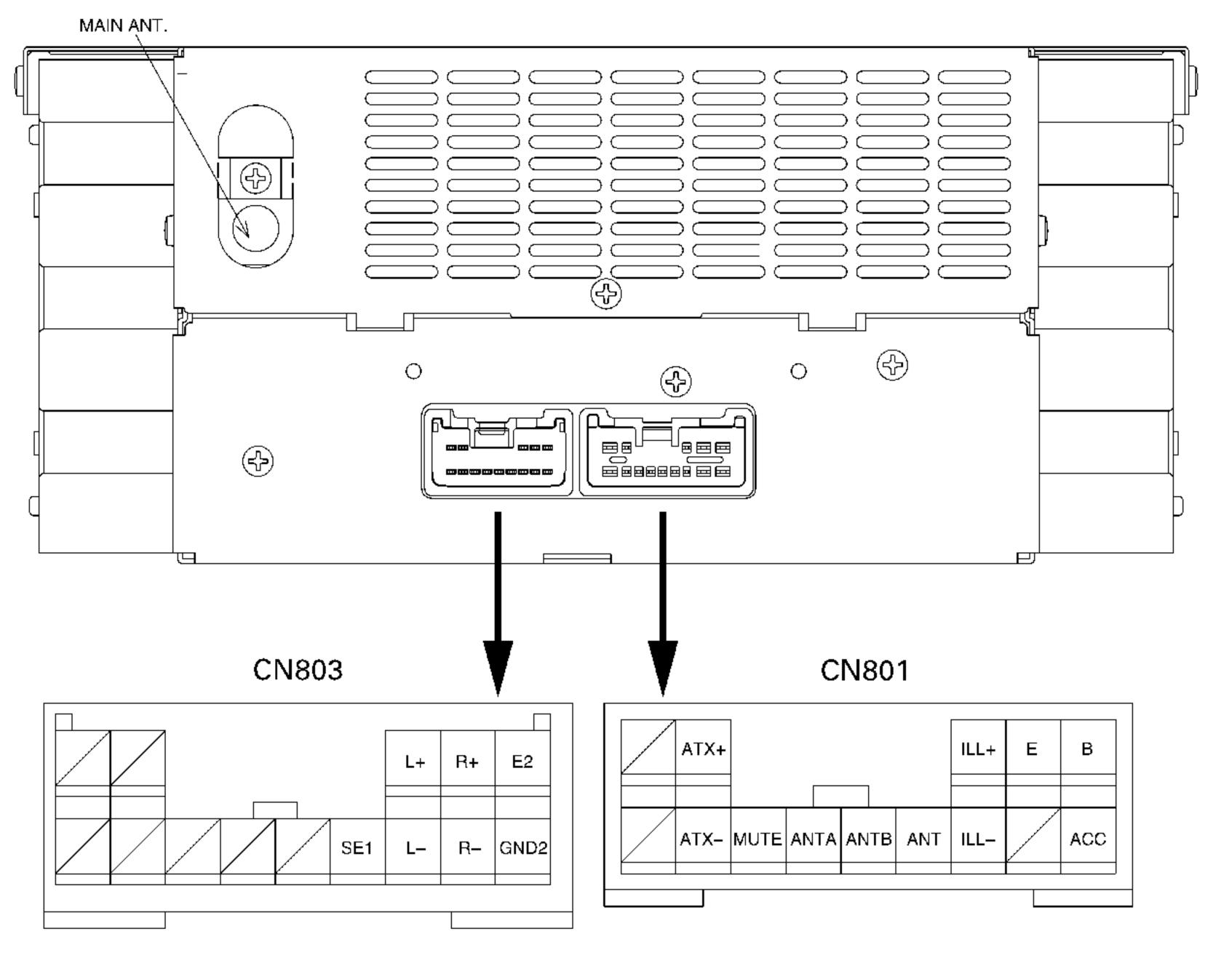
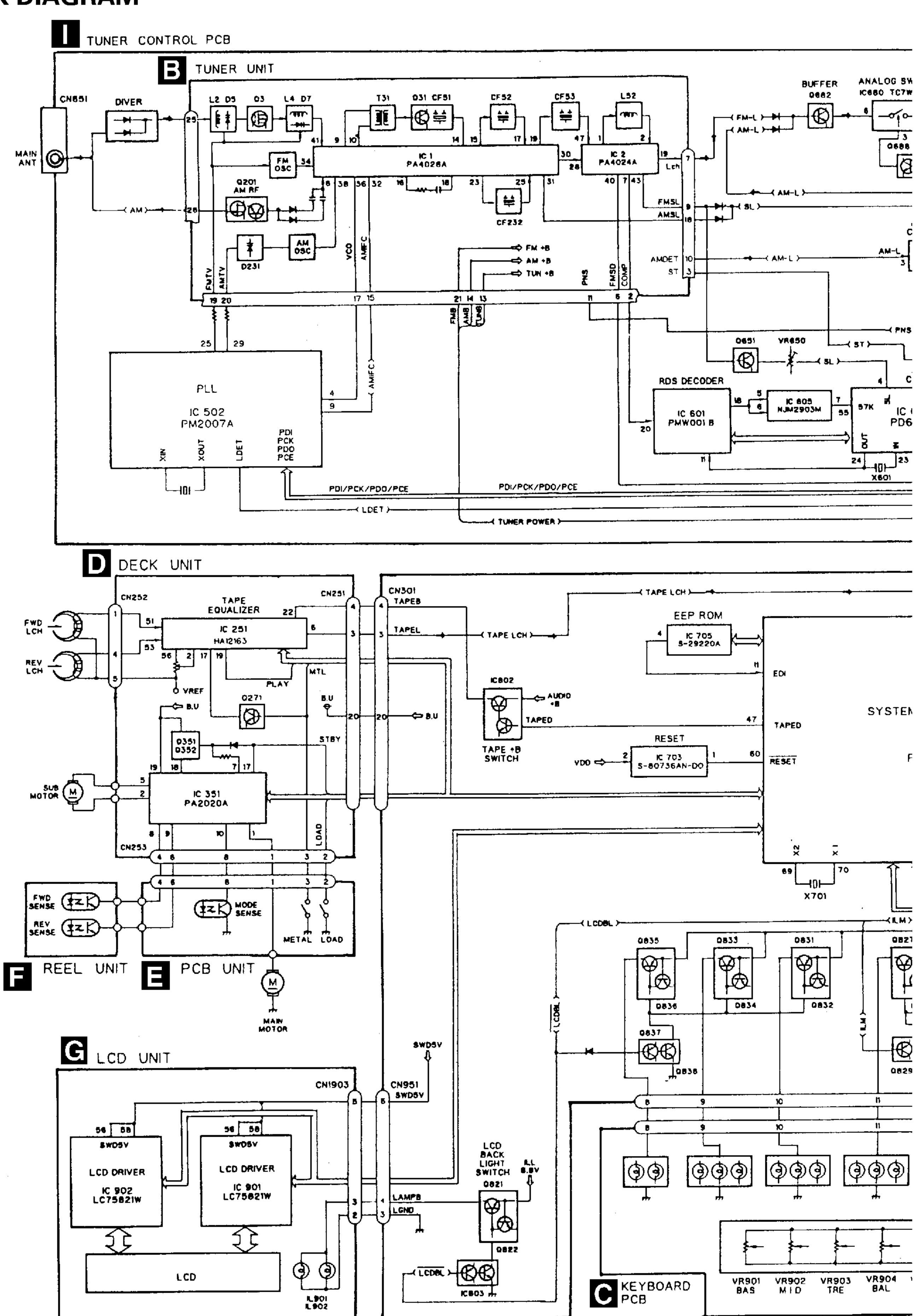
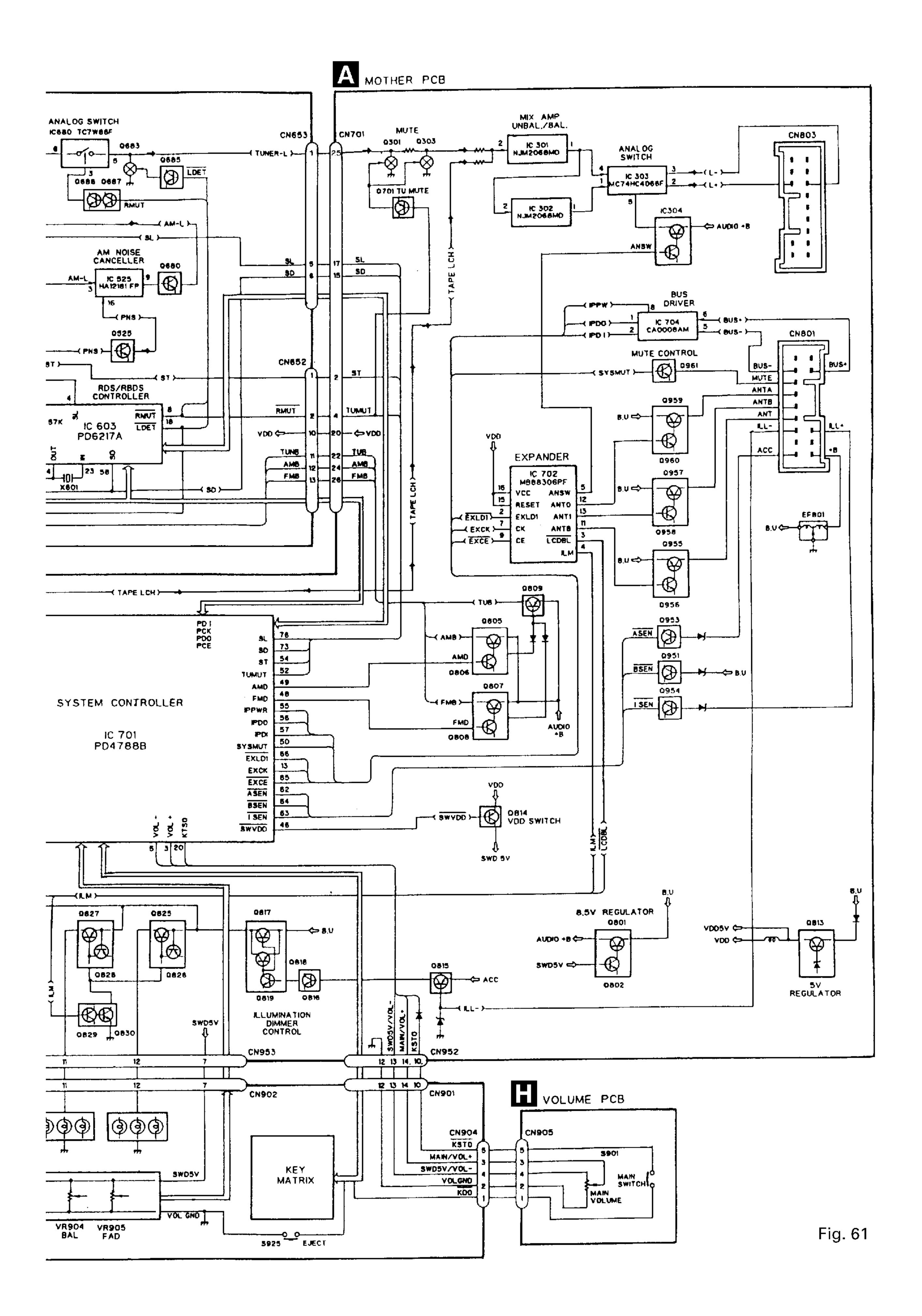


Fig. 60

7.3 EXPLANATION

7.3.1 BLOCK DIAGRAM





7.3.2 SYSTEM BLOCK DIAGRAM

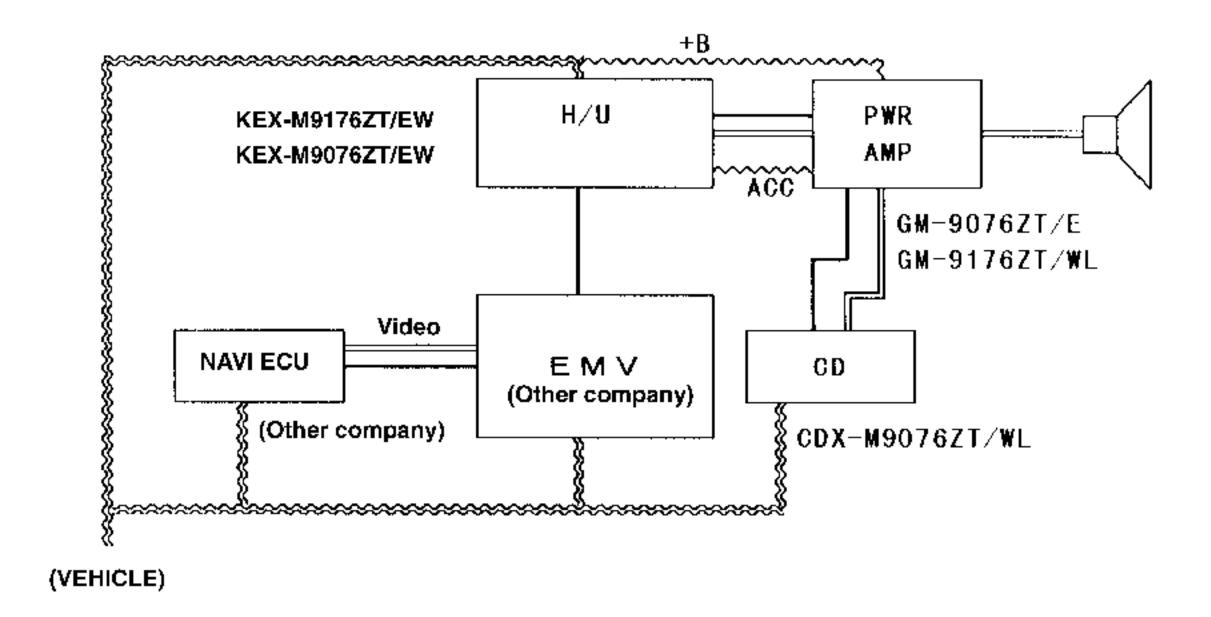


Fig. 62

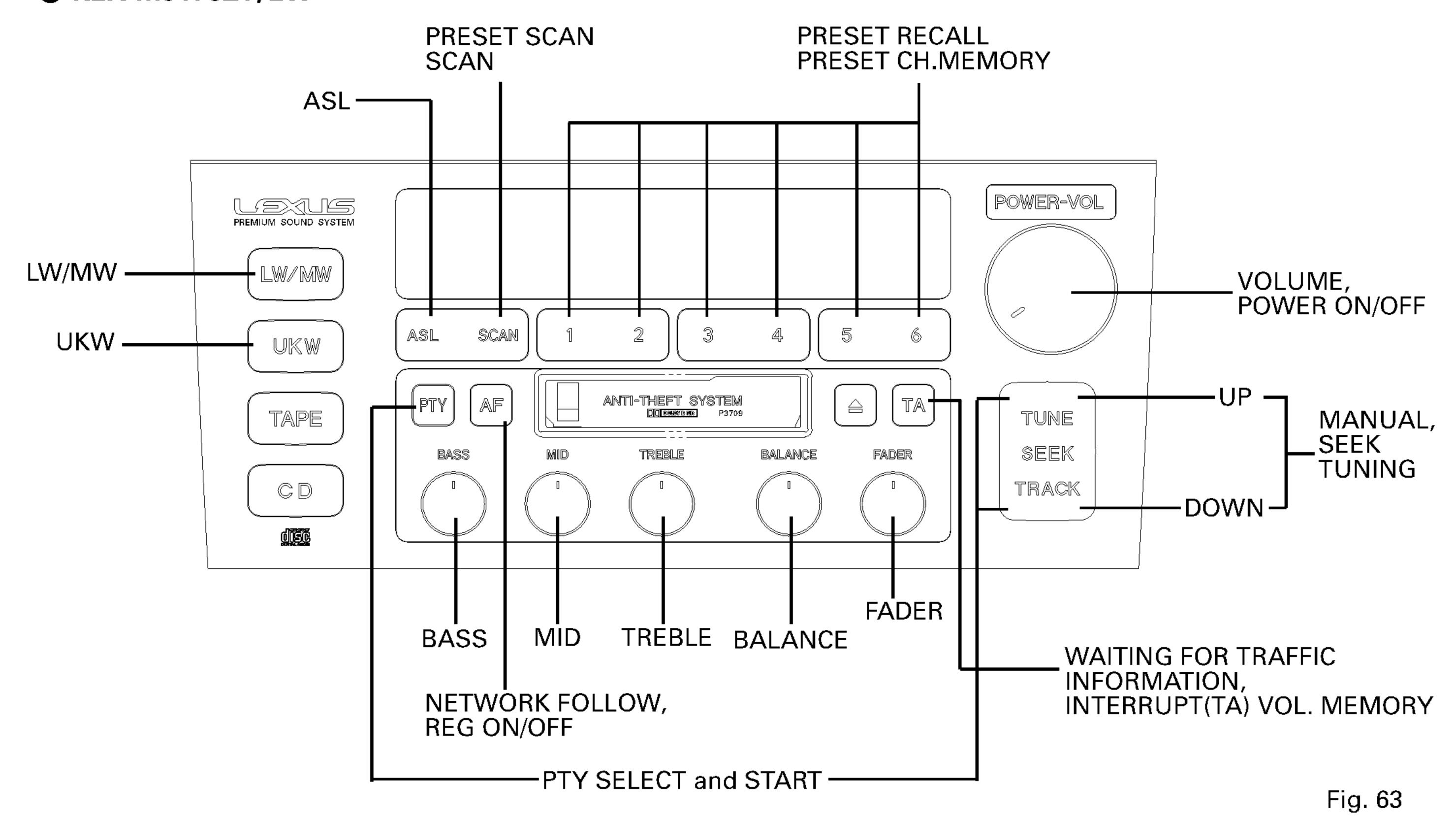
8. OPERATIONS AND SPECIFICATIONS

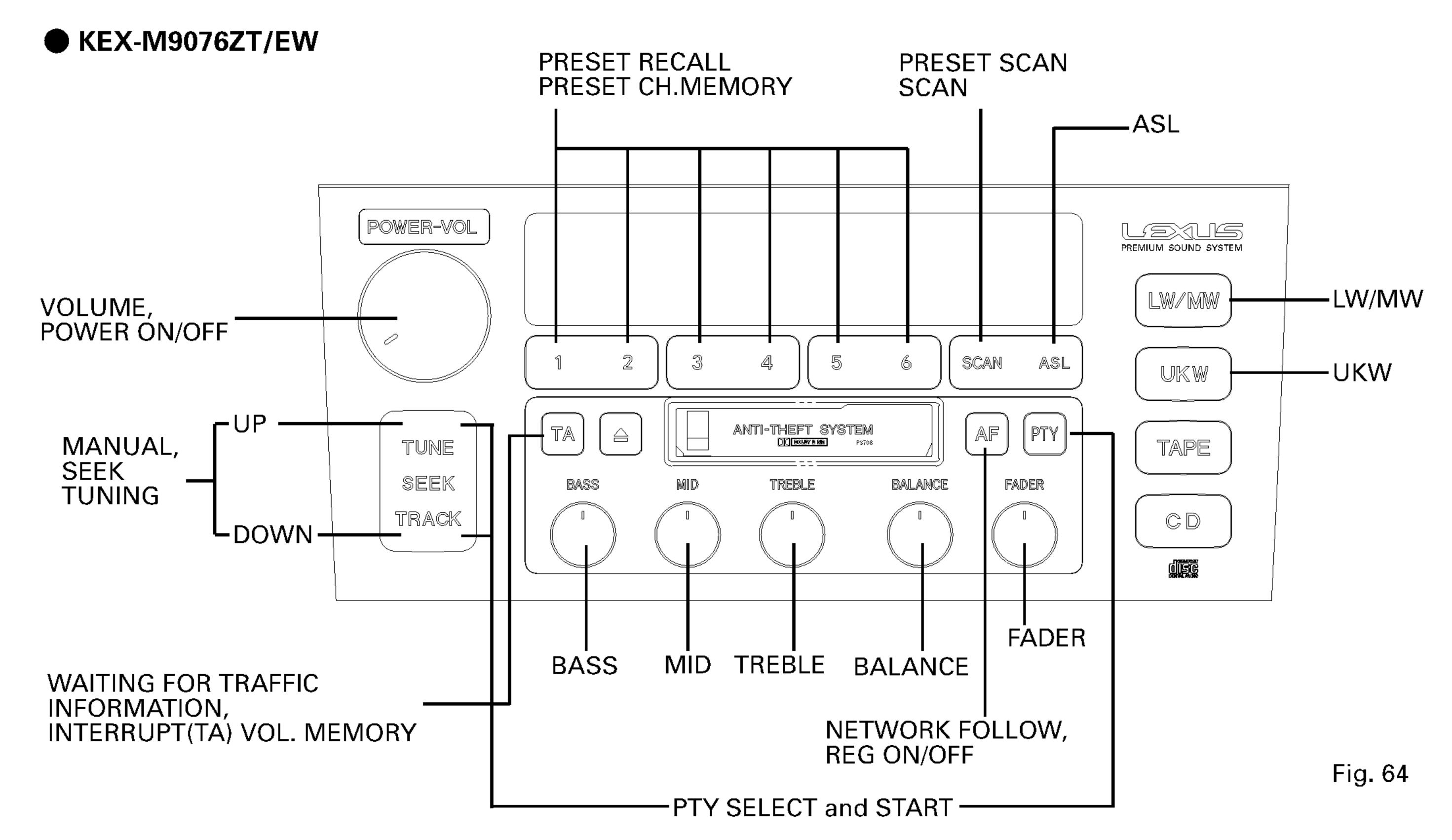
8.1 OPERATIONS

RADIO

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KEX-M9176ZT/EW





TAPE

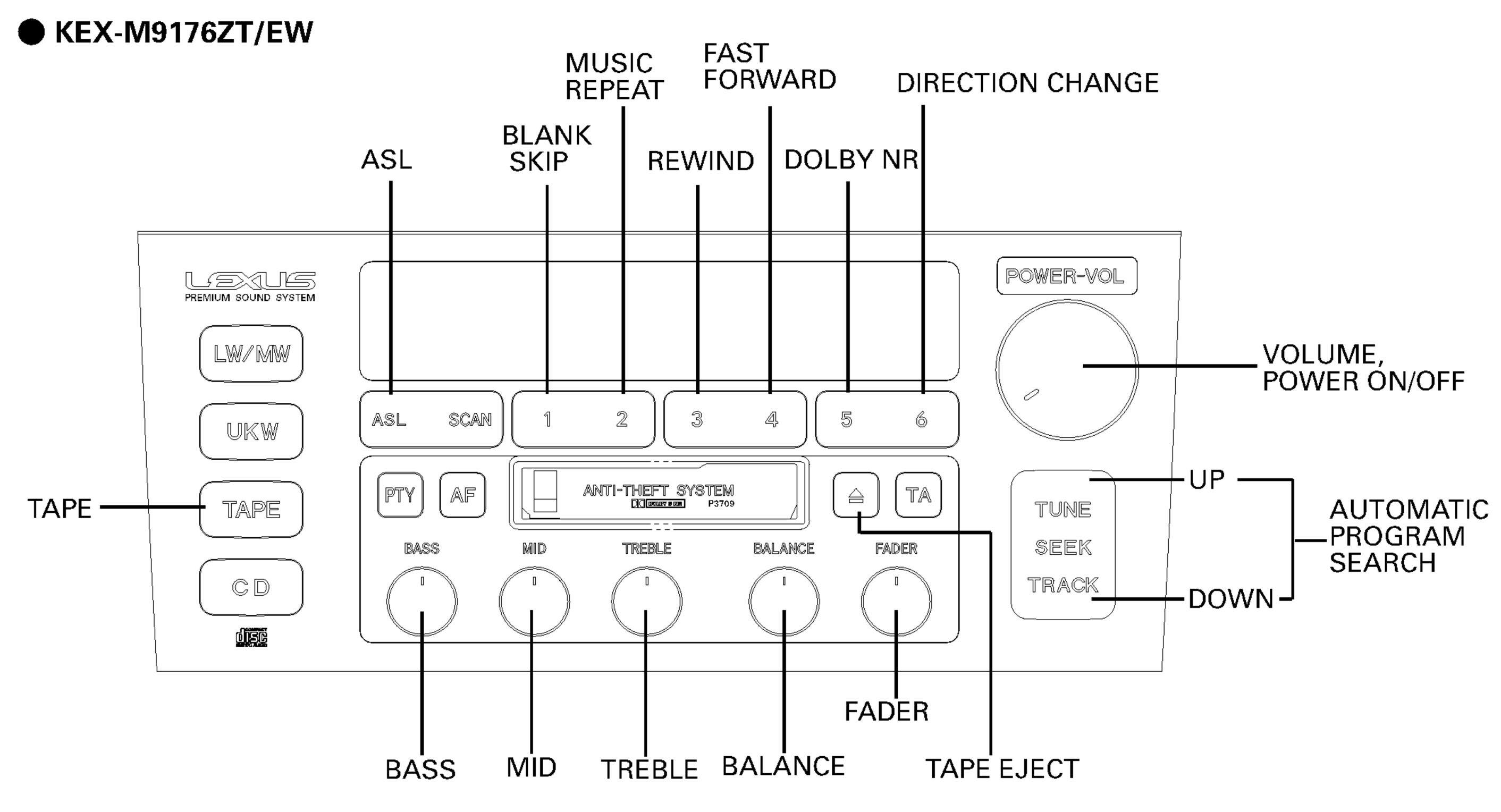


Fig. 65

● KEX-M9076ZT/EW

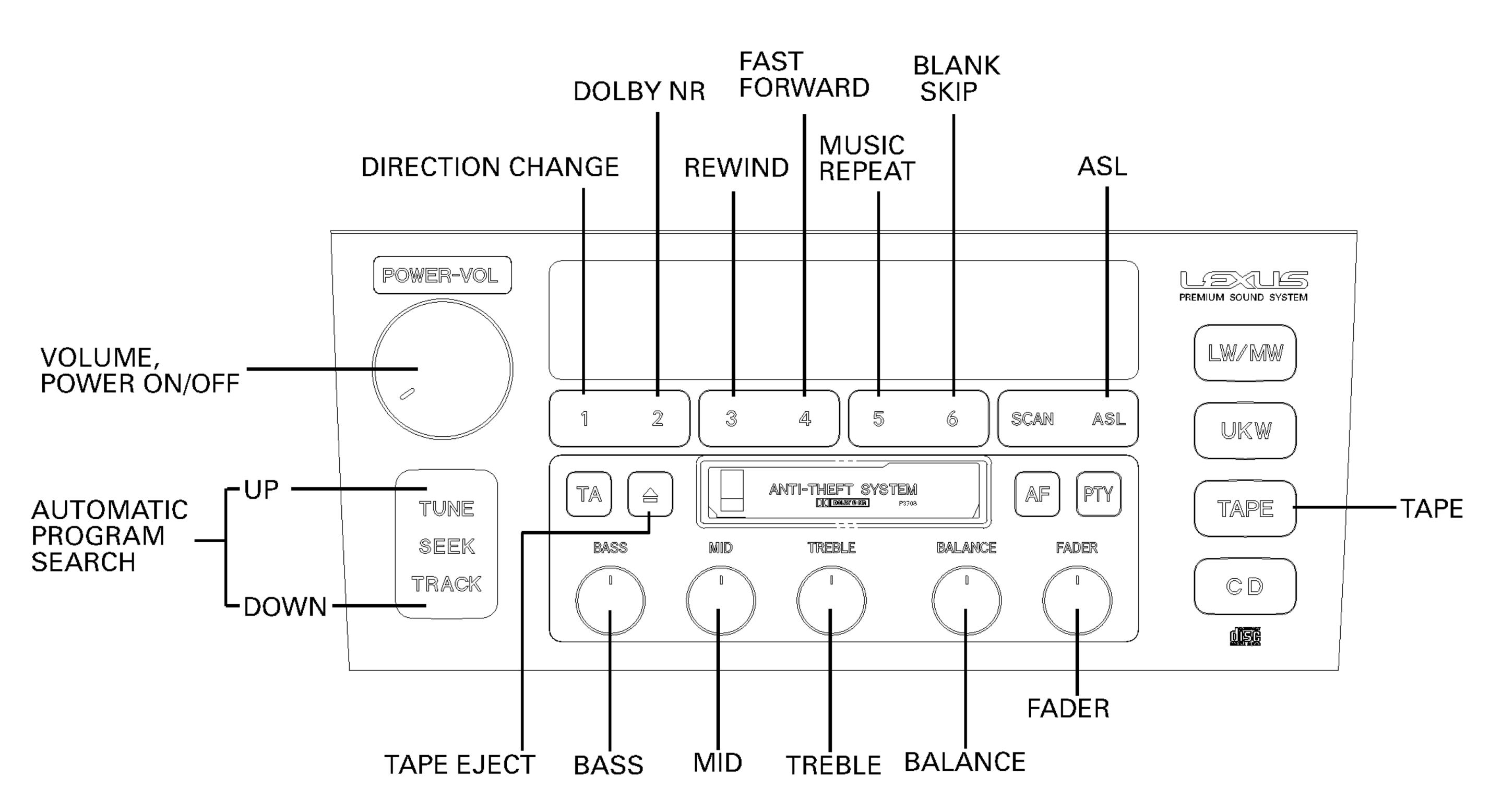
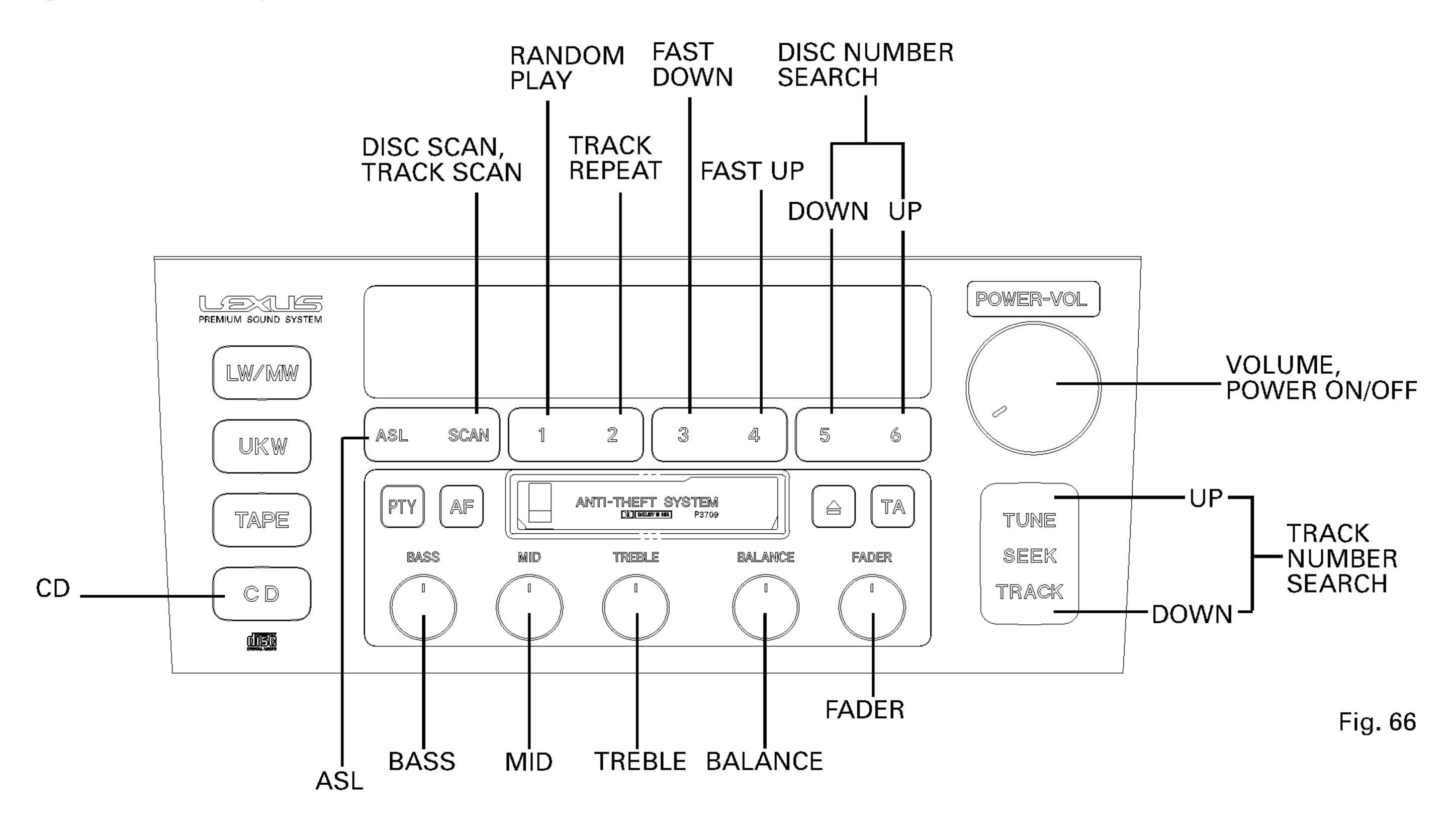
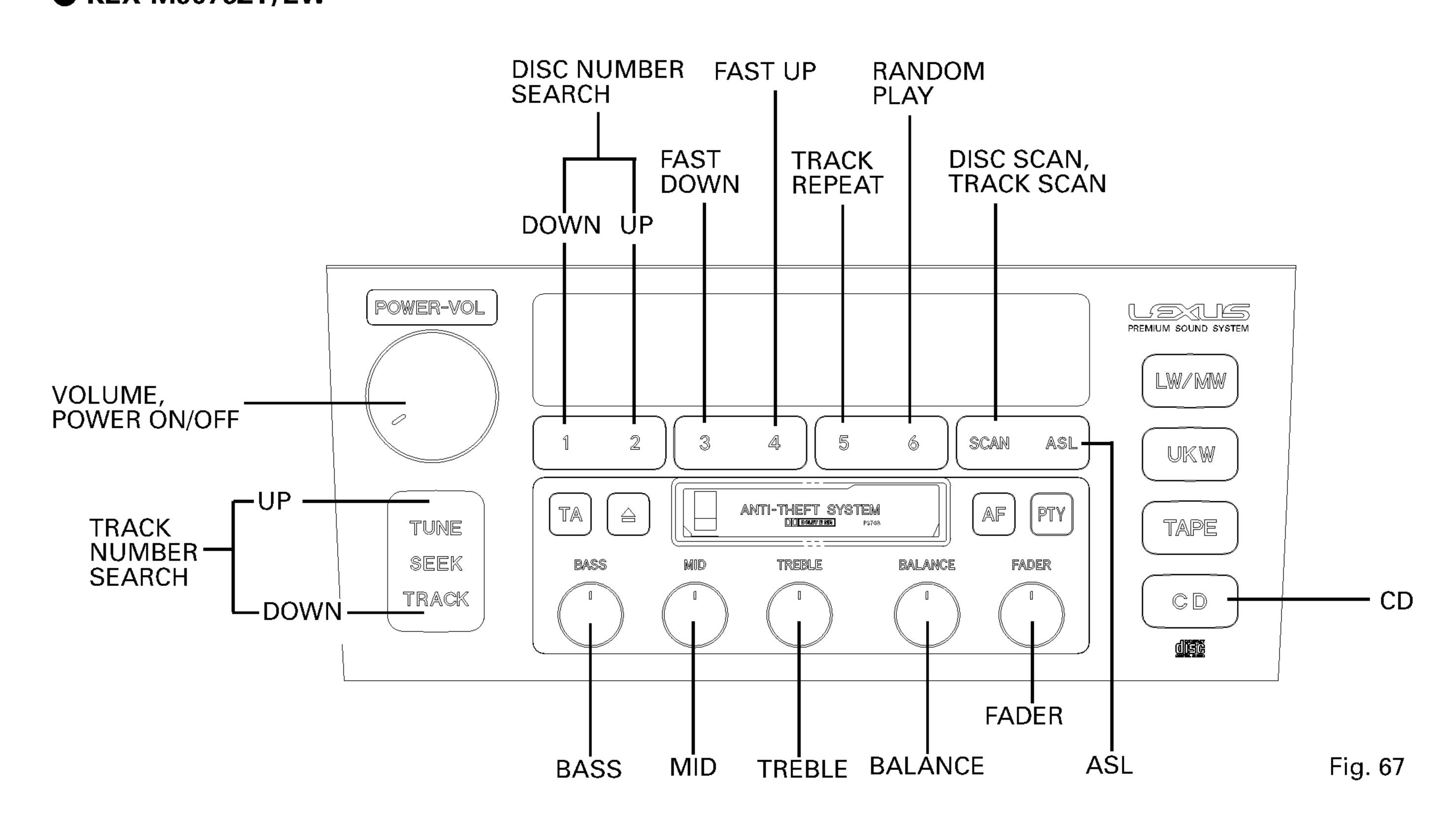


Fig. 66

- CD
- KEX-M9176ZT/EW



● KEX-M9076ZT/EW



8.2 SPECIFICATIONS

General	UK
Power source	Fre
Grounding system	Us
Weight	Sig
T	Dis
Tape player	Ste
Tape Compact cassette tape (C-30—C-90)	
Tape speed 4.76 cm/sec.(+0.14 cm/sec.,-0.05 cm/sec.)	MV
Wow & flutter less than 0.2 %(WRMS)	Fre
Fast forward/rewind time less than 120 sec. for C-60	Us
Stereo separation	Sel
Signal-to-noise ratio more than 40 dB	Sig
	Dis

UKW (FM) tuner
Frequency range
MW tuner
Frequency range
LW tuner
Frequency range